



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 162378

TO: Ulrike Winkler  
Location: REM-3A39&3C18  
Art Unit: 1648  
Monday, August 22, 2005

Case Serial Number: 09/303510

From: Edward Hart  
Location: Biotech-Chem Library  
REM-1A55  
Phone: 571-272-2512

edward.hart@uspto.gov

### Search Notes

Examiner Winkler,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

*Please Note  
Seq ID No 5+6  
of US 09/303510  
is same as  
SEQ ID No 5+6  
of US 09/303040*



BEST AVAILABLE COPY

162378

From: Winkler, Ulrike  
Sent: Friday, August 12, 2005 12:08 PM  
To: STIC-Biotech/ChemLib

STIC,

Please search the interference files for SEQ ID NO 5 and 6 of 09/303510.

Thanks, Ulrike

CRFE

Ulrike Winkler, Ph.D.  
Patent Examiner, Art Unit 1648  
Remsen 3A39 / Mail Box 3C18  
tel. 571-272-0912  
fax. 571-273-0912

\*\*\*\*\*  
STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2- \_\_\_\_\_  
Date Searcher Picked up: 8/17/05  
Date Completed: 8/22/05  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*  
Type of Search

NA#: 1 AA#: 1  
Interference: \_\_\_\_\_ SPDI: \_\_\_\_\_  
S/L: \_\_\_\_\_ Oligomer: \_\_\_\_\_  
Encode/Transl: \_\_\_\_\_  
Structure#: \_\_\_\_\_ Text: \_\_\_\_\_  
Inventor: \_\_\_\_\_ Litigation: \_\_\_\_\_

\*\*\*\*\*  
Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: 01/02  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_



# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact:*

Mary Hale, Information Branch Supervisor  
Remsen Bldg. 01 D86  
571-272-2507

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library, Remsen Bldg.



This sequence is identical to Seq ID 6 of OF/203 040 - plus instant claims do a sequence

Query Match	53.7%	Score	332	DB 4	Length	372	
Best Local Similarity	59.1%	Pred. No.	2.9e-86				
Matches	195	Conservative	44	Mismatches	83	Indels	8
QY	2	GICDSTMGLSHTLLVMAILLSSGVSMKSQAYFNKTKBELPCHPTNQSISLDELVYFVMDQ	61				
DB	44	GICDSTMGLSNLLPVNAFLSSGAAPLKIQAYFNETADLPQCFANSONSLSLSELVYFVMDQ	103				
QY	62	DKLAVLYSIFRGKENPQNVHLKYGKRTSPDKNMTLRLLHNVOIKDKGTYHCFHYHKGPKGL	121				
DB	104	ENLVLENYLVGKEKEDSVHSHKMGRTSPDSSTWTLRLNNQIKDKGLYQCIPIHKKPQGM	163				
QY	122	VPMQMSLSLVANPSQPEITVTSNRTENSIGIINLTCSSTGQYPPKEMYPQIAJTNST	181				
DB	164	IRIQHNSLSLVANPSQPEIVPSINITENVYINLTCSSTIHGYPPEKQMSVLLTKQST	222				
QY	182	TKYDVTVMKKSQNNVTLEYNVISLISLPFSVPE-AHNVSVFCALKLETLMLLSLPFNDAQP	240				
DB	223	IEYDGMKQSQDNVTLEYDVSISLSVSPDPVTSNMTIFCILEYTDKTR-LSSSPFSIELE-	280				
QY	241	KDKDPSQGHPLIAVLVPMVYVFCQMSVFKTLRK-RKKQKQPSHSCETIKERKESKQT	299				
DB	281	-DPQPPDPDHPITAVLPPT-VIICVMVCLILNKKKKKPRNSYKQNTNWERSESQT	338				
QY	300	NERVPYHYVPSRDEAQC-VNILETASGDKN	328				
DB	339	KKEKTHIPERDEAQRVPKSKTSISCDKE	368				

[illegible]



301 ATCTCAAAATATAAGGGCGGTACAGCTTTGACAGGACAACTGGACCTCGAGCTCCACA 360  
 Db ATCTCAAAATATAAGGGCGGTACAGCTTTGACAGGACAACTGGACCTCGAGCTCCACA 360  
 361 AGTTTCAGATCAAGGACAGGGGCACATATACATGTTTCAATTCATTTAATTAAGGGCCCAAG 420  
 Db AGTTTCAGATCAAGGACAGGGGCACATATACATGTTTCAATTTAATTAAGGGCCCAAG 420  
 421 GACTAGTTCCCATGCAACAAATGAGTTCTGACCTATCAGTGTCTGCTAACTTCAGTCAAC 480  
 Db GACTAGTTCCCATGCAACAAATGAGTTCTGACCTATCAGTGTCTGCTAACTTCAGTCAAC 480  
 481 CTGAATAAAGAGTAACTTCTAATAGAACAGAAATCTGGCATCATATAATTTGACCTGCT 540  
 Db CTGAATAAAGAGTAACTTCTAATAGAACAGAAATCTGGCATCATATAATTTGACCTGCT 540  
 541 CATCTATACAAAGTTACCGAAGACCTTAAGGAGATGTATTTTCAGCTAAACACTGAGAAAT 600  
 Db CATCTATACAAAGTTACCGAAGACCTTAAGGAGATGTATTTTCAGCTAAACACTGAGAAAT 600  
 601 CAACTACTAAGTATGATCTGTCTATGAGAAATCTCAAAATAATGTGACAGAACTGTACA 660  
 Db CAACTACTAAGTATGATCTGTCTATGAGAAATCTCAAAATAATGTGACAGAACTGTACA 660  
 661 AGTTTCTATCAGCTTCCCTTTTTCAGTCCCTGAGACACAAATGTGAGGCTCTTTTGTG 720  
 Db AGTTTCTATCAGCTTCCCTTTTTCAGTCCCTGAGACACAAATGTGAGGCTCTTTTGTG 720  
 721 CCTCAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAAC 780  
 Db CCTCAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAAC 780  
 781 CTAAGCAATAAGACCCCTGAAAGGCGCACTTCTCTGGAATGGCGTGTACTGTAAATGT 840  
 Db CTAAGCAATAAGACCCCTGAAAGGCGCACTTCTCTGGAATGGCGTGTACTGTAAATGT 840  
 841 TTGTTGTTTTTGGGATGGTCTCTTTAAACACTAAGGAAAGGAGAGAGAGCGGC 900  
 Db TTGTTGTTTTTGGGATGGTCTCTTTAAACACTAAGGAAAGGAGAGAGAGCGGC 900  
 901 CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAGAGAGCAACAGACCA 960  
 Db CTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAGAGAGCAACAGACCA 960  
 961 ACAGAGAGTACCATACAGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAAACATT 1020  
 Db ACAGAGAGTACCATACAGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAAACATT 1020  
 1021 TGAAGACAGCTCAGGGGACAAATCAAGTACGAGAAATGGTGGCTTGGCGTGTGACAAAT 1080  
 Db TGAAGACAGCTCAGGGGACAAATCAAGTACGAGAAATGGTGGCTTGGCGTGTGACAAAT 1080

RESULT 2

US-09-326-186B-226  
 ; Sequence 226, Application US/09326186B  
 ; Patent No. 631906  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bennett, Clarence Frank  
 ; APPLICANT: Vickers, Timothy A.  
 ; TITLE OF INVENTION: Oligonucleotide Compositions and Methods for the  
 ; FILE OF INVENTION: Modulation of the Expression of B7 Protein  
 ; FILE REFERENCE: ISPH-0376  
 ; CURRENT APPLICATION NUMBER: US/09/326,186B  
 ; CURRENT FILING DATE: 1999-06-04  
 ; PRIOR APPLICATION NUMBER: 08/777,266  
 ; PRIOR FILING DATE: 1996-12-31  
 ; NUMBER OF SEQ ID NOS: 226  
 ; SOFTWARE: PatentIn ver. 2.0  
 ; SEQ ID NO 226  
 ; LENGTH: 1424  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien

US-09-326-186B-226  
 Query Match 53.8%; Score 580.6; DB 3; Length 1424;  
 Best Local Similarity 75.9%; Pred. No. 2.3e-178;  
 Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;  
 1 GTTTCGTGTTCTCTGGGAATGTCACTGAGCTTTATACATCTGGTCTCTG---GAGCTGC 57  
 Db GTTTCGTGTTCTCTGGGAATGTCTGTGCTTATGCACTCTGGTCTCTTTTGGAGCTAC 121  
 58 AGTGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTATGGCCC 117  
 Db AGTGATGGGCAATTTGTGACAGCACTATGGGACTGAGTAACATCTCTCTGTGTATGGCCT 181  
 118 TCCTGCTCTCTGTGTTCTTCCATCAAGAGTCAGCATATTTCAACAGAGCTCGGAAC 177  
 Db TCCTGCTCTCTGTGTTCTTCCATCAAGATTCAGCTTATTTCAATGAGCTCGAGACC 241  
 178 TGCCATGCAATTTTCAAACTCTCAAAACATTAAGCTGTGATGAGCTGTAGTATTTTGGC 237  
 Db TGCCATGCAATTTTCAAACTCTCAAAACATTAAGCTGTGATGAGCTGTAGTATTTTGGC 301  
 238 AGGACCAAGTAAGCTGTGTTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATG 297  
 Db AGGACCAAGTAAGCTGTGTTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATG 361  
 298 TTCACTCTCAATATTAAGGGCGGTACAAAGCTTTTGACAGGACAACTGGACCTCGAGACTCC 357  
 Db TTCACTCTCAATATTAAGGGCGGTACAAAGCTTTTGACAGGACAACTGGACCTCGAGACTTC 421  
 358 ACAATGTTTCAGATCAAGGACAGAGGCAATATCACTGTGTTTCAATTTATTAAGGGGCCA 417  
 Db ACAATGTTTCAGATCAAGGACAGAGGCAATATCACTGTGTTTCAATTTATTAAGGGGCCA 481  
 418 AAGGACTAGTTCCCATGCTCACAAATGAGTTCTGACCTATCAGTGTCTGCTTAATCTCAGTC 477  
 Db AAGGACTAGTTCCCATGCTCACAAATGAGTTCTGACCTATCAGTGTCTGCTTAATCTCAGTC 541  
 478 AACCTGAATTAACAGTAACTCTTAATGAACAGAAATTTCTGGCATCAATAATTTGACCT 537  
 Db AACCTGAATTAACAGTAACTCTTAATGAACAGAAATTTCTGGCATCAATAATTTGACCT 598  
 538 GCTCATCTATACAAAGGTTTACCAGAACCTTAAGAGAGATGTATTTTCAGCTAAACACTGAGA 597  
 Db GCTCATCTATACAAAGGTTTACCAGAACCTTAAGAGAGATGTATTTTCAGCTAAACACTGAGA 658  
 598 ATTCAACTACTAAGTATGATCTGCTCAAGGAAATCTCAAAATTAATGTGACAGAACTGT 657  
 Db ATTCAACTACTAAGTATGATCTGCTCAAGGAAATCTCAAAATTAATGTGACAGAACTGT 718  
 658 ACAAGTTTCTATCAGCTTCTCTTTTTCAGTCCCTGAAAG---CACACAATGTGAGCGTCT 714  
 Db ACAAGTTTCTATCAGCTTCTCTTTTTCAGTCCCTGAAAG---CACACAATGTGAGCGTCT 778  
 715 TTGTGCGCTTGAACCTGAGACACTGAGATGCTGCTCTCCCTACCTTTCAATATAGATG 774  
 Db TTGTGCTTCTGGAACCTGAGACACTGAGATGCTGCTCTCCCTACCTTTCAATATAGATG 832  
 775 CACAACTTAAGGATTAAGACCTTGAAACAGGGCACTTCTCTGGAATTCGGGCTGTACTTG 834  
 Db CACAACTTAAGGATTAAGACCTTGAAACAGGGCACTTCTCTGGAATTCGGGCTGTACTTG 889  
 835 TAATGTTGTTGTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAGAGAGAGA 894  
 Db TAATGTTGTTGTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAGAGAGAGA 949  
 895 AGCAGCTTGGCCCTCTCATGAATGTGAACCACTCAAGAGGAGAGAGAGAGAGAGAAC 954  
 Db AGCAGCTTGGCCCTCTCATGAATGTGAACCACTCAAGAGGAGAGAGAGAGAGAGAAC 1009  
 955 AGACCAACGAAAGAGTACCATATCAAGTCTGAGAGATCTGATGAAGCCCACTGTG--- 1011  
 Db AGACCAACGAAAG 1069

Qy 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAAATCA 1048  
Db 1070 TTAAGAATTCGAAGACATCTTCATGCGCAAAAGTGA 1106

RESULT 3

US-09-441-411-21  
; Sequence 21, Application US/09441411  
; Patent No. 6734172  
; GENERAL INFORMATION:  
; APPLICANT: Scholler, Nathalie B.  
; APPLICANT: Diele, Mary L.  
; APPLICANT: Hellstrom, Inggerd  
; APPLICANT: Hellstrom, Karl Erik  
; TITLE OF INVENTION: SURFACE RECEPTOR ANTIGEN VACCINES  
; FILE REFERENCE: 730033.409  
; CURRENT APPLICATION NUMBER: US/09/441.411  
; CURRENT FILING DATE: 1999-11-16  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PastSeq for Windows Version 4.0  
; SEQ ID NO 21  
; LENGTH: 1424  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-441-411-21

Query Match 53.8%; Score 580.6; DB 4; Length 1424;  
Best Local Similarity 75.9%; Pred. No. 2.3e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

Qy 1 GTTCTGTGTTCTCTGGGATGTCATGAGCTTATACATCTGCTCTG---GGAGTCG 57  
Db 62 GCTCTGTGTTCTCTGGGATGTCATGAGCTTATACATCTGCTCTGTTTGGAGTAC 121  
Qy 58 AGTGGATGGCAATTTGTGACAGCATATGGGACTGAGTCACATCTCTCTGTGATGCC 117  
Db 122 AGTGGACAGGCATTTGTGACAGCATATGGGACTGAGTAACATCTCTCTGTGATGCC 181  
Qy 118 TCCTGCTCTCTGTGTTCTCTTCCATGAAGTCACAGCATATTTTCAAGAGCTGGAGAC 177  
Db 182 TCCTGCTCTCTGTGTTCTCTTCCATGAAGTCACAGCATATTTTCAAGAGCTGGAGAC 241  
Qy 178 TCCATGTCATTTTACAACTCTCAAAATCAAAAGCTGAGTGTGATGTTTGGC 237  
Db 242 TCCATGTCATTTTACAACTCTCAAAATCAAAAGCTGAGTGTGATGTTTGGC 301  
Qy 238 AGGACAGGATGAGTGTGTTCTGTATGAGATATTCAGAGGCAAGAGCACTCAAAATG 297  
Db 302 AGGACAGGATGAGTGTGTTCTGTATGAGTATCTTAGGCAAGAGCAATTTGACAGTG 361  
Qy 298 TTCTATCTCAATATAGGCGGTACAGCTTTGCAAGGACCACTGGACCTGAGACTCC 357  
Db 362 TTCTATCTCAATATAGGCGGTACAGCTTTGCAAGGACCACTGGACCTGAGACTTC 421  
Qy 358 ACATGTTTCAGATCAAGGACAGGCGACATATCACTGTTTTCATTTATTAAGGGCCCA 417  
Db 422 ACATGTTTCAGATCAAGGACAGGCGGTGATCAATGATATCAATCAATCAAAAGGCCA 481  
Qy 418 AAGGACTAGTTCCCATGCGCCCAATGAGTCTTGACCTATCACTGCTGCTCACTGATC 477  
Db 482 CAGGATGATTCGATCCACAGATGATTTGCACTGCTGCTGCTGCTGCTGCTGCTGCT 541  
Qy 478 AACCTGTAATTAACAGTAACTTTCTAATAGAACAGAAATTTTGGCATCAATTAATTTGACCT 537  
Db 542 AACCTGTAATTAACAGTAACTTTCTAATAGAACAGAAATTTTGGCATCAATTAATTTGACCT 598  
Qy 538 GCTCATCTATACAGGTTTACCCAGACCTTAAGGAGATGATTTTTCAGCTAAACACTGAGA 597  
Db 599 GCTCATCTATACAGGTTTACCCAGACCTTAAGGAGATGATTTTTCAGCTAAACACTGAGA 658  
Qy 598 ATTCAACTACTAAGTATGACTGTGTCATGAAGAAATCTCAAAATATGTCAGAGACTGT 657

Db 659 ATTCAACTATGAGTATGATGTTATTCGAGAAATCTCAAGATATATGTCACAGAACTGT 718  
Qy 658 ACAAGCTTTTATATGAGTGTGCTTTTTCAGTCCCTCAAG---CACAAATGTGACGCTCT 714  
Db 719 AGAGCGTTTCCATCAGCTTGTCTGTTTTCATTCCTGATGTATGAGCAATATGACCATCT 778  
Qy 715 TTTGTGCTTGAACCTGGAGACACTGAGATGCTCTCCCTTACCTTTTCAATATAGATG 774  
Db 779 TCTGTATTCTGAAACTGACA---AGAGCGGCTTTTATCTTCCCTTTCTCTATAG--- 832  
Qy 775 CACAACTTAAGATTAAGACCTTGAACAGGCGACTCTCTCTGGATTTGGCTGTACTTG 834  
Db 833 ---AGCTTGAAGACCTTCCAGCTCCCTCCACACACATCTCTTGGATTTACAGCTGTACTTC 889  
Qy 835 TAATGTTTGTGTTTGTGGATGCTCTTTTAAACACCTAAGGAAAGAAAGAAAGA 894  
Db 890 CAACAGTTATTATATGTTGATGTTTCTGCTAATCTATGGAATGGAAGAAAGA 949  
Qy 895 AGCAGCTGGCTCTCTCATGAATGTCAGAACCATCAAGAGGAGAGAGAGAGCAAC 954  
Db 950 AGCGCTCTGCACTCTTATTAATGTGGAACCAACCAATGAGAGGAGAGAGAGTGAAC 1009  
Qy 955 AGACCAACGAAAGAGTACCATACACCTACCTGAGAGATCTGATGAAGCCCACTGTG--- 1011  
Db 1010 AGACCAAGAAAGAGAAATCCATATACCTGAAAGATCTGATGAAGCCCACTGTGTT 1069  
Qy 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAAATCA 1048  
Db 1070 TTAAGAATTCGAAGACATCTTCATGCGCAAAAGTGA 1106

RESULT 4

PCT-US94-09642-1  
; Sequence 1, Application PC/TUS9409642  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: Purified Mammalian CTLA-4 Binding  
; TITLE OF INVENTION: Protein and Related Reagents  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Schering-Plough Corporation, M-3-W  
; STREET: One Girarda Farms  
; CITY: Madison  
; STATE: New Jersey  
; COUNTRY: USA  
; ZIP: 07940-1000  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: Apple Macintosh IIfx  
; OPERATING SYSTEM: System Software 7.1  
; SOFTWARE: Microsoft Word 5.1a  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/09642  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/120,606  
; FILING DATE: 13-SEP-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/116,882  
; FILING DATE: 03-SEP-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Blasdale, John H. C.  
; REGISTRATION NUMBER: 31,895  
; REFERENCE/DOCKET NUMBER: DX0390K1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 201-822-7398  
; TELEFAX: 201-822-7039  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1428 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single

TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 152..1123  
PCT-US94-09842-1

Query Match 53.8%; Score 580.6; DB 5; Length 1428;  
Best Local Similarity 75.9%; Pred. No. 2.5e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

Qy 1 GTTCTGTGTTCTCGGGAATGTCACCTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57  
Db 66 GCTTCTGTGTTCTCGGGAATGTCACCTGAGCTTATACATCTGGTCTCTGTTTGAGCTAC 125  
Qy 58 AGTGGATGGCAATTTGTCAGACACTATGGGACTGAGTCACTCTCTGTTGATGGCC 117  
Db 126 AGTGGACAGGCAATTTGTCAGACACTATGGGACTGAGTCACTCTCTGTTGATGGCC 185  
Qy 118 TCTGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGGAGAC 177  
Db 186 TCTGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAATGAGACTGCAGAC 245  
Qy 178 TCCCATGCAATTTTACAACTCTCAAAACATTAAGCTGATGAGTCTGTTGATTTGGC 237  
Db 246 TCCCATGCAATTTTGAACCTCTCAAAACATTAAGCTGATGAGTCTGTTGATTTGGC 305  
Qy 238 AGGACAGGATAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGACCTCAAAATG 297  
Db 306 AGGACAGGAAATCTGGTTCTGAATGAGGTATCTTAGGCAAGAGAAATTTGACAGTG 365  
Qy 298 TTCTCTCTCAAAATATAAGGCGGTACCAAGCTTTGACAGGCAACTGGACCTGAGACTCC 357  
Db 366 TTCTCTCTCAAAATATAAGGCGGTACCAAGCTTTGATTCGACAGTTGACCTGAGACTTC 425  
Qy 358 ACATGTTTCAGATCAAGGACAGGACATATACATCTGTTTCAATTAAGGCGCCA 417  
Db 426 ACATGTTTCAGATCAAGGACAGGCTTGTATCAATGATATCATCATCAAAAGGCCA 485  
Qy 418 AAGGATAGTTTCCATGACCAAAATGATTTGACATATCAGTCTTGTCTTAACTTCAGTC 477  
Db 486 CAGGAATGATTCGATCACCAGATGAATTTCTGAACTGTCTGAGTCTTGTCTTAACTTCAGTC 545  
Qy 478 AACCTGAAATTAACAGTAACTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 537  
Db 546 AACCTGAAATAGTACCAATTTCTAATATAACAGAAA---TGTGTACATAAATTTGACCT 602  
Qy 538 GCTCATCTATACAGGTTTACCCAGAACCTTAAGGACATGTAATTTTTCAGTAAACATGCA 597  
Db 603 GCTCATCTATACAGGTTTACCCAGAACCTTAAGGACATGAGTGTGTTTCTTAAGAACCAAG 662  
Qy 598 ATTCAACTATAGTATGATATCTGTCAAGAGAAATCTCAAAATTAATGTCAGAGACTGT 657  
Db 663 ATTCAACTATAGTATGATGATATTAATGCAAAATCTCAAGATTAATGTCAGAGACTGT 722  
Qy 658 ACAAGCTTCTATCAGCTGCTCTTTTTCAGTCTCCCTGAAG---CACAAATGTCAGGCTCT 714  
Db 723 ACGAGTTTCCATCAGCTTCTCTGTTTCTATCCCTGATGTTACGNGCAATATGACCATCT 782  
Qy 715 TTTGTCCTGMAACTGAGACACTGGAGATGCTCTCTCTCTGATTTGCGGCTGTACTTG 774  
Db 783 TCTGTATTTCTGMAACTGAC---AGACGCGCTTTTATCTTCACTCTTCTCTATAG--- 836  
Qy 775 CACAACTTAAGGATAAAGACCTTGAAACAAAGGCACTTCTCTGATTTGCGGCTGTACTTG 834  
Db 837 ---AGCTTGAAGACCTCAGCTCTCCCGACAGCAATTCCTTGGATTAAGCTGTACTTC 893  
Qy 835 TAATGTTTGTGTTTGTGCGATGCTCTCTTTTAAACACTAAGGAAAGAGNAGCA 894  
Db 894 CAACAGTTATATATGTTGATGTTTCTGTTCTTAATTTCTATGGAATGGAAGAGAGA 953  
Qy 895 AGGAGCTGCGCCCTCTCATGATGTGAATGTGAACCATCAAAAGGAGAGAAAGAGAGCAAC 954

Db 954 AGGGCTCGCAACTCTTATTAATCTGGAAACCAACACATGAGGAGGAGAGAGTGAAC 1013  
Qy 955 AGACCAAGCAAGAGTACCATACAGTACCTGAGGAGATCTGNTGAGCCCAAGTGTG--- 1011  
Db 1014 AGACCAAGCAAGAGGAGAAATCCATATACCTGGAAGATCTGATGAGCCCAAGCTGT 1073  
Qy 1012 TTAACATTTTGAAGACGCTCTCAGGGGACAAAATCA 1048  
Db 1074 TTAAAGTTTGAAGACATCTTTCATGCGCAAAAGTGA 1110

RESULT 5  
US-09-949-016-5261  
; Sequence 5261: Application US/09949016  
; Patent No.: 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5261  
; LENGTH: 1600  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-5261

Query Match 53.8%; Score 580.6; DB 4; Length 1600;  
Best Local Similarity 75.9%; Pred. No. 2.5e-178;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

Qy 1 GTTCTGTGTTCTCGGGAATGTCACCTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57  
Db 62 GCTTCTGTGTTCTCGGGAATGTCACCTGAGCTTATACATCTGGTCTCTTGTGAGCTAC 121  
Qy 58 AGTGGATGGCAATTTGTCAGACACTATGGGACTGAGTCACTCTCTGTTGATGGCC 117  
Db 122 AGTGGACAGGCAATTTGTCAGACACTATGGGACTGAGTCACTCTCTGTTGATGGCT 181  
Qy 118 TCTGCTCTCTGTTGTTTCTTCCATGAAGTCAAGCATATTTCAACAGACTGAGAAC 177  
Db 182 TCTGCTCTCTGTTGTTTCTTCCATGAAGTCAAGCATATTTCAACAGACTGAGAAC 241  
Qy 178 TCCCATGCAATTTTCAAACTCTCAAAACATTAAGCTGAGTCTGATGATTTTGGC 237  
Db 242 TCCCATGCAATTTTCAAACTCTCAAAACATTAAGCTGAGTCTGATGATTTTGGC 301  
Qy 238 AGGACAGGATAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGACCTCAAAATG 297  
Db 302 AGGACAGGAAATCTGTTCTGATGAGTATATCTTAGGCAAGAGAAATTTGACAGTG 361  
Qy 298 TTCTCTCTCAAAATATAAGGCGGTGAAGCTTTTGAACAGACAACTGAGACCTGAGACTCC 357  
Db 362 TTCTCTCTCAAAATATAAGGCGGTGAAGCTTTTGAATTCGACAGAGTTGGAACCTGAGACTTC 421  
Qy 358 ACAATGTTTCAGATCAAGGACAGGCAATATCATCTGTTTCAATCATTTATAAAGGCGCCA 417  
Db 422 ACAATGTTTCAGATCAAGGACAGGCTTGTATCAATGATATCATCATCAAAAGGCCA 481  
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Db 482 CAGGATGATTCGATCCAGGATGATTTCTGAATGTTGTTGAGTCTGAGTCTGATCTTCACTGTC 541  
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[illegible]

## RESULT 6

US-08-205-697A-24  
 ; Sequence 24, Application US/08205697A  
 ; Patent No. 6218510  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sharpe, Arlene H.  
 ; APPLICANT: Borriello, Francescopaulo  
 ; APPLICANT: Freeman, Gordon J.  
 ; APPLICANT: Nadler, Lee M.  
 ; TITLE OF INVENTION: No. 6218510el Forms of T Cell Costimulatory Molecules  
 ; TITLE OF INVENTION: and Uses Therefor  
 ; NUMBER OF SEQUENCES: 61  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD  
 ; STREET: 60 State Street, suite 510  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109-1875  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: ASCII Text  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/205,697A  
 ; FILING DATE: 02-Mar-1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Mandragoras, Amy E.  
 ; REGISTRATION NUMBER: 36,207  
 ; REFERENCE/DOCKET NUMBER: BWI-120  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617)227-7400





Query Match 51.2%; Score 552.6; DB 5; Length 1161;  
Best Local Similarity 74.6%; Pred. No. 2,7e-169;  
Matches 802; Conservative 0; Mismatches 234; Indels 39; Gaps 7;

QY 1 GTTCTGTTGCTCTCGGAAATGTCAGTGGCTTATACATCTGCTCTG---CGAGCTGC 57  
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QY 58 AGTGGAGGGCAATTTGTGACA-----GCACTATGGGACTGAGTCACA 99  
DB 122 AGTGACAGGCAATTTGTGACAGCACTATGATCCCAAGTGCACATATGGGACTGAGTAACA 181  
QY 100 CTCTCTGTTGATGGCCCTCTCTCTCTGTTGTTTCTTCCATGAAGATCAAGCATATT 159  
DB 182 TTCTCTTTGTTGATGGCCCTCTCTCTCTGTTGTTTCTTCCATGAAGATCAAGCTATT 241  
QY 160 TCAACAGACTGGAGAACTGCCATGCAATTTTACAACTCTCAAAACATTAAGCTGGATG 219  
DB 242 TCAATGAGACTGCAAGCTGCCATGCAATTTTGAACCTCTCAAAACCAAGCTGAGTG 301  
QY 220 AGCTGCTAGTATTTTGGCAGGACCAAGTAACTGTTCTGTATGATATTCAGAGGCA 279  
DB 302 AGCTAGTAGTATTTTGGCAGGACCAAGAAACTTGTGTTCTGAATGAGTATCTTAGGCA 361  
QY 280 AAGAGACCTCAAAATGTTCACTCAAAATTAAGGCGGTACAGCTTTTGACAGGACA 339  
DB 362 AAGAGAAATTTGACAGGTTTCATTCAGTATATGGCGCCGACAAAGTTTGTATCGGACA 421  
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QY 400 TTCAATTAAGGCGCCCAAGGACTAGTTCCTCATGCAAAATGAGTTCGACCTATCAG 459  
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QY 817 GGATTTGGGCTGTACTGTAAATGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGT 876  
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QY 937 AGAGAAAG 996  
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DB 1070 ATGAAGCCCAAGTGTGTTTAAAGTTCGAAGACATCTTCATGCGACAAAGATGA 1124

RESULT 10  
US-09-039-982A-33  
; Sequence 33, Application US/09039982A  
; Patent No. 6225042  
; GENERAL INFORMATION:  
; APPLICANT: Cai, Zeling  
; APPLICANT: Sprunt, Jonathan  
; APPLICANT: Brumark, Anders  
; APPLICANT: Jackson, Michael  
; APPLICANT: Peterson, Per A  
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS FOR ACTIVATION OF T-C  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Olson & Hierl, Ltd.  
; STREET: 20 No. 6225042th Wacker Drive, Suite 3000  
; CITY: Chicago  
; STATE: Illinois  
; COUNTRY: USA  
; ZIP: 60606  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/039,982A  
; FILING DATE: 16-MAR-1998  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Olson, Atne M.  
; REGISTRATION NUMBER: 10,203  
; REFERENCE/DOCKET NUMBER: TSRI4710  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (312) 580-1180  
; TELEFAX: (312) 580-1189  
; INFORMATION FOR SEQ ID NO: 33:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1002 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; US-09-039-982A-33

Query Match 49.4%; Score 533.2; DB 3; Length 1002;  
Best Local Similarity 75.3%; Pred. No. 5.3e-163;  
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

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DB 20 GCATGTGGAGCTGAGTCACTCTCTGTTGATGAGGCGCTCTGCTCTGCTGCTGCTTCTT 79  
QY 139 CCATGAAGAGCTCAAGCATATTTCAACAAGACTGCGAGAACTGCGCATGCGCATTTTACAACT 198  
DB 80 CTCTGAAGATTTCAAGCTTATTTCAATGAGACTGCGAGACCTGCGCATGCGCATTTTGAACACT 139  
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DB 140 CTCAAAACCAAGCCCTGAGTGAAGTATTTTGGCAGGACCCAGGATAAGCTGCTTC 199  
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DB 200 TGAATGAGTATTTAGGCAAGAGAAATTTGACAGTGTTCATTCAGTATATGAGGCC 259  
QY 319 GTACAGCTTTGACAGGACAACTGGAACCTTGAGCTCCCAATGTTTTCAGATCAAGGACA 378  
DB 260 GCACAGTGTGATGAGGACAGTGTGAGACCTTGAGACCTTCAATCTTTCAGATCAAGGACA 319





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: Sequence 33, Application US/09042492D
: Patent No. 6362001
: GENERAL INFORMATION:
: APPLICANT: Cai, Zeling
: Sprent, Jonathan
: Brunmark, Anders
: Jackson, Michael
: Peterson, Per A.
: TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS
: FOR ACTIVATION OF T-CELLS
: NUMBER OF SEQUENCES: 59
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Olsson & Hierl, Ltd.
: STREET: 20 No. 6362001th Wacker Drive, 36th Floor
: CITY: Chicago
: STATE: Illinois
: COUNTRY: USA
: ZIP: 60606
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/042.492D
: FILING DATE: 16-Mar-1998
: CLASSIFICATION: <Unknown>
: ATTORNEY/AGENT INFORMATION:
: NAME: Cepuritis, Talivaldis
: REGISTRATION NUMBER: 20 818
: REFERENCE/DOCKET NUMBER: 471.0 DIV.3
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (312) 580-1180
: TELEFAX: (312) 580-1189
: INFORMATION FOR SEQ ID NO: 33:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1002 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-09-042-492D-33

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Qy	499	CTAATAGAAACAGAAAAATTCGGGCATCATAAATTTGACCTGCTCATCTATACAGGTTACC	558
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Qy	796	CTGAAACAAGGCCACTTCTCTGATATGCGCTGTACTTGTAAATGTTGTGTGTTTTTGTG	855
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Db	788	TGGTTTTCTGTCTAAATCTTATGGAATGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	847
Qy	916	AATGTGAACCATCAAAAGGAG	975
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RESULT 14
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; Sequence 33, Application US/08913612A
; Patent No. 6461867
; GENERAL INFORMATION:
; APPLICANT: Cai, Zeling
; APPLICANT: Sprent, Jonathan
; APPLICANT: Brunmark, Anders
; APPLICANT: Jackson, Michael
; APPLICANT: Peterson, Per A.
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS FOR
; TITLE OF INVENTION: ACTIVATION OF T-CELLS
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS: 65
; ADDRESSEE: Olsson & Hierl, Ltd.
; STREET: 20 NO. 6461867th Wacker Drive, 36th Floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/913,612A

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Db	380	AGTGAATCTGAACTGTGAGCTGCTTAACTTCAGTCAACCTGAAATAGTACCAATTT	439
Qy	499	CTAATAGAACAGAAATCTTGGCATCATAAATTTGACCTGCTCATCTATACAAGTTACC	558
Db	440	CTAATATAACAGAAA---TGTGTACATAAAATTTGACCTGCTCATCTATACAAGTTACC	496
Qy	559	CAGAACCTTAAGGAGATGATTTTTCAGCTAAACACTGAGAAATTCAACTACTAAGTATGATA	618
Db	497	CAGAACCTTAAGGAGATGATTTTTCAGCTAAACACTGAGAAATTCAACTACTAAGTATGATA	556
Qy	619	CTGTCAAGAGAAATCTCAAAATTAATGTGACAGAACTGTACAAAGTTCTATCAAGCTTGC	678
Db	557	GTATTTATGACAGAAATCTCAAGATAAATGTCAAGAACTGTACAGAACTGTACAGCTTGT	616
Qy	679	CTTTTTCAGTCCCTGAAG---CACACAATGTGAGGCTCTTTTGTGCGCTGAAACTGGAGA	735
Db	617	CTGTTTTCATCCCTGATGTTACGAGCAATATGACCATCTTCTGTATTCGGAACCTGACA	676
Qy	736	CAGTGGAGATGCTGCTCCCTACCTTCATATATAGATGACACACCTAAGGATAAAGACC	795
Db	677	---AGACGGGCTTTTATCTTCACCTTCTCTATAG-----AGCTTGGGACCTTCAGC	727
Qy	796	CTGAACAAAGGCCACTTCTCTGGAATGCGGCTGTACTTTGTAATGTTTGTGTTTGTG	855
Db	728	CTCCCCCAGACCAATCTCTGGATTAAGCTGTACTTCCAAAGTTATTATATGTGTGA	787
Qy	856	GGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGCAAGCAGCCTGGCCCTCTCATG	915
Db	788	TGGTTTCTGTCTAATTTCTATGGAATATGGAAGAGAGAGCGGCTTCGCACTCTTATA	847
Qy	916	AATGTGAACCATCAAAAGGGAGAGAAAGAGAGCAACAGACCAAGAAAGAGTACCAT	975
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Qy	976	ACCAGTACCTGAGAGATCTGATGAAGCCAGCTGTG---TTAACAATTTGAAGACAGCCT	1032
Db	908	TCCATATACCTGAAGATCTGATGAAGCCAGCTGTGTTTATAAAGTTGGAAGACATCTT	967
Qy	1033	CAGGGGACAAAATCA	1048
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Job time : 227 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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Gapop 10.0, Gapext 1.0

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Maximum Match 100%  
Listing first 45 summaries

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26: /cgn2\_6/ptodata/1/pubna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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ALIGNMENTS

RESULT 1  
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; Sequence 5, Application US/09303510A  
; Patent No. US20020028208A1  
; GENERAL INFORMATION:  
; APPLICANT: Collisbon, Ellen W.  
; APPLICANT: Hash, Stephen M.  
; APPLICANT: Chol, Insoo  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline  
; FILE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides  
; FILE REFERENCE: 54954  
; CURRENT APPLICATION NUMBER: US/09/303,510A  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: 60/083,869  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 83  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1080  
; TYPE: DNA  
; ORGANISM: Feline  
; US-09-303-510-5

Query Match 100.0%; Score 1080; DB 9; Length 1080;  
Best Local Similarity 100.0%; Pred. No. 1.6e-308;  
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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61  GGATGGGCAATTTGTGACGACATATGGGACTGAGTCACACTCTCTTGTGATGGCCCTCC 120
121  TGCTCTCTGGTGTCTTCCATGAGAGTCAGGATATTTCAACAGAGCTGGAGACTGC 180
121  TGCTCTCTGGTGTCTTCCATGAGAGTCAGGATATTTCAACAGAGCTGGAGACTGC 180
181  CATGCCATTTTACAACTCTCAAAACATTAAGCCTGGATGCTGGTATTTTGGCAGG 240
181  CATGCCATTTTACAACTCTCAAAACATTAAGCCTGGATGCTGGTATTTTGGCAGG 240
241  ACCAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTT 300
241  ACCAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTT 300
301  ATCTCAATATTAAGGCGGCTAAGCTTTGACAGGACACTGGACCTGAGACTCACA 360
301  ATCTCAATATTAAGGCGGCTAAGCTTTGACAGGACACTGGACCTGAGACTCACA 360
361  ATGTTTCAGATCAAGGACAGGCAATATCACTGTTTCATTTCAATTAAGAGGCCCAAG 420
361  ATGTTTCAGATCAAGGACAGGCAATATCACTGTTTCATTTCAATTAAGAGGCCCAAG 420
421  GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTGCTGCTAACTCAGTCAAC 480
421  GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTGCTGCTAACTCAGTCAAC 480
481  CTGAAATTAACAGTAACTTTCTAATAGAAACAGAAATTTCTGGCATCATTAATTTGACTGT 540
481  CTGAAATTAACAGTAACTTTCTAATAGAAACAGAAATTTCTGGCATCATTAATTTGACTGT 540
541  CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTTCAGCTAAACACTGGAAT 600
541  CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTTCAGCTAAACACTGGAAT 600
601  CAATCTATAGTATGATCTGTCAGAGGAAATCTCAAAATATGTCAGAGACTGTACA 660
601  CAATCTATAGTATGATCTGTCAGAGGAAATCTCAAAATATGTCAGAGACTGTACA 660
661  ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCAACAATGTGAGCGCTTTTGTG 720
661  ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCAACAATGTGAGCGCTTTTGTG 720
721  CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
721  CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
781  CTAGGATTAAGACCTTGACAGGCACTTCTCTGGAATGCGGCTGTAATGTAATGT 840
781  CTAGGATTAAGACCTTGACAGGCACTTCTCTGGAATGCGGCTGTAATGTAATGT 840
841  TTGTTGTTTTTGTGGGATGTTGCTCTTTTAAACACTAAGGAAAGGAGAAATGAGC 900
841  TTGTTGTTTTTGTGGGATGTTGCTCTTTTAAACACTAAGGAAAGGAGAAATGAGC 900
901  CTGCGCCCTCTCATGATATGTAACCATCAAGGAGGAGAGAGAGAGGAGAGAGAGCA 960
901  CTGCGCCCTCTCATGATATGTAACCATCAAGGAGGAGAGAGAGAGAGAGAGAGAGCA 960
961  ACGAAGAGTACCATACAGCTACCTGAGAGATCTGATGAAAGCCAGTGTGTTAACTTT 1020
961  ACGAAGAGTACCATACAGCTACCTGAGAGATCTGATGAAAGCCAGTGTGTTAACTTT 1020
1021  TGAAGACAGCTCAGGGGCAAAATATCAGTAGGAAATGTTGGCTTGGCTGCTGACAT 1080
1021  TGAAGACAGCTCAGGGGCAAAATATCAGTAGGAAATGTTGGCTTGGCTGCTGACAT 1080

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RESULT 2

US-09-303-040-5

; Sequence 5, Application US/09303040

```

; Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Winlow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CD86, Feline CD86-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
; US-09-303-040-5

Query Match      100.0%; Score 1080; DB 9; Length 1080;
Best Local Similarity 100.0%; Pred. No. 1.6e-308;
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTCTCTGTCTCTCTGGGAATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCA 60
DB 1 GTTCTCTGTCTCTCTGGGAATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCA 60
QY 61 GGATGGGCAATTTGTGACGACATATGGGACTGAGTCACACTCTCTTGTGATGGCCCTCC 120
DB 61 GGATGGGCAATTTGTGACGACATATGGGACTGAGTCACACTCTCTTGTGATGGCCCTCC 120
QY 121 TGCTCTCTGGTGTCTTCCATGAGAGTCAGGATATTTCAACAGAGCTGGAGACTGC 180
DB 121 TGCTCTCTGGTGTCTTCCATGAGAGTCAGGATATTTCAACAGAGCTGGAGACTGC 180
QY 181 CATGCCATTTTACAACTCTCAAAACATTAAGCCTGGATGCTGGTATTTTGGCAGG 240
DB 181 CATGCCATTTTACAACTCTCAAAACATTAAGCCTGGATGCTGGTATTTTGGCAGG 240
QY 241 ACCAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTT 300
DB 241 ACCAGGATAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTT 300
QY 301 ATCTCAATATTAAGGCGGCTAAGCTTTGACAGGACACTGGACCTGAGACTCACA 360
DB 301 ATCTCAATATTAAGGCGGCTAAGCTTTGACAGGACACTGGACCTGAGACTCACA 360
QY 361 ATGTTTCAGATCAAGGACAGGCAATATCACTGTTTCATTTCAATTAAGAGGCCCAAG 420
DB 361 ATGTTTCAGATCAAGGACAGGCAATATCACTGTTTCATTTCAATTAAGAGGCCCAAG 420
QY 421 GACTAGTTTCCATGAGTATGTAACCATCAAGGAGGAGAGAGAGAGAGAGAGAGCA 480
DB 421 GACTAGTTTCCATGAGTATGTAACCATCAAGGAGGAGAGAGAGAGAGAGAGAGCA 480
QY 481 CTGAAATTAACAGTAACTTTCTAATAGAAACAGAAATTTCTGGCATCATTAATTTGACTGT 540
DB 481 CTGAAATTAACAGTAACTTTCTAATAGAAACAGAAATTTCTGGCATCATTAATTTGACTGT 540
QY 541 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTTCAGCTAAACACTGGAAT 600
DB 541 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTTCAGCTAAACACTGGAAT 600
QY 601 CAATCTATAGTATGATCTGTCAGAGGAAATCTCAAAATATGTCAGAGACTGTACA 660
DB 601 CAATCTATAGTATGATCTGTCAGAGGAAATCTCAAAATATGTCAGAGACTGTACA 660
QY 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCAACAATGTGAGCGCTTTTGTG 720
DB 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCAACAATGTGAGCGCTTTTGTG 720
QY 721 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
DB 721 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
QY 781 CTAGGATTAAGACCTTGACAGGCACTTCTCTGGAATGCGGCTGTAATGTAATGT 840
DB 781 CTAGGATTAAGACCTTGACAGGCACTTCTCTGGAATGCGGCTGTAATGTAATGT 840
QY 841 TTGTTGTTTTTGTGGGATGTTGCTCTTTTAAACACTAAGGAAAGGAGAAATGAGC 900
DB 841 TTGTTGTTTTTGTGGGATGTTGCTCTTTTAAACACTAAGGAAAGGAGAAATGAGC 900
QY 901 CTGCGCCCTCTCATGATATGTAACCATCAAGGAGGAGAGAGAGAGAGAGAGAGCA 960
DB 901 CTGCGCCCTCTCATGATATGTAACCATCAAGGAGGAGAGAGAGAGAGAGAGAGCA 960
QY 961 ACGAAGAGTACCATACAGCTACCTGAGAGATCTGATGAAAGCCAGTGTGTTAACTTT 1020
DB 961 ACGAAGAGTACCATACAGCTACCTGAGAGATCTGATGAAAGCCAGTGTGTTAACTTT 1020
QY 1021 TGAAGACAGCTCAGGGGCAAAATATCAGTAGGAAATGTTGGCTTGGCTGCTGACAT 1080
DB 1021 TGAAGACAGCTCAGGGGCAAAATATCAGTAGGAAATGTTGGCTTGGCTGCTGACAT 1080

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Db 661 AGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGGACACAAATGTGAGCGTCTTTTGTG 720  
 Qy 721 CCCTGAATCTGAGACACTGGAGATGCTCTCTCCCTACCTTTTCAATATAGATGACAAAC 780  
 Db 721 CCCTGAATCTGAGACACTGGAGATGCTCTCTCCCTACCTTTTCAATATAGATGACAAAC 780  
 Qy 781 CTAAGGATTAAGACCCCTGAAACAGGCCCACTTCTCTGAGTTGCGCTGTACTTGAATGT 840  
 Db 781 CTAAGGATTAAGACCCCTGAAACAGGCCCACTTCTCTGAGTTGCGCTGTACTTGAATGT 840  
 Qy 841 TTGTTGTTTTTGTGGATGCTCTCTTTAAACACATAAGGAAAGGAGAGAGAGAGAGAG 900  
 Db 841 TTGTTGTTTTTGTGGATGCTCTCTTTAAACACATAAGGAAAGGAGAGAGAGAGAGAG 900  
 Qy 901 CTGGCCCTCTCATGAATGTGAAACCAATCAAAAGGGAGAGAAAGAGAGAGAGAGAGAG 960  
 Db 901 CTGGCCCTCTCATGAATGTGAAACCAATCAAAAGGGAGAGAGAAAGAGAGAGAGAGAG 960  
 Qy 961 AGCAAGAGTACCATACCTGAGATCTGATGAGGCCAGTGTGTTAAACATTT 1020  
 Db 961 AGCAAGAGTACCATACCTGAGATCTGATGAGGCCAGTGTGTTAAACATTT 1020  
 Qy 1021 TGAAGACAGCTCAGGGGACAAATCAGTGAAGAAATGTTGGCTTGGCTGTGACAAAT 1080  
 Db 1021 TGAAGACAGCTCAGGGGACAAATCAGTGAAGAAATGTTGGCTTGGCTGTGACAAAT 1080

RESULT 3

US-10-790-396-25  
 ; Sequence 25, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Yang, Shumin  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
 ; FILE REFERENCE: IM-1-Cl-PCT  
 ; CURRENT FILING DATE: 2004-03-01  
 ; PRIOR APPLICATION NUMBER: US/09/646,561  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 09/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn ver. 2.0  
 ; SEQ ID NO 25  
 ; LENGTH: 2830  
 ; TYPE: DNA  
 ; ORGANISM: Felis catus  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (179)..(1174)  
 US-10-790-396-25

Query Match 96.4%; Score 1041.2; DB 19; Length 2830;  
 Best Local Similarity 99.7%; Pred. No. 8.4e-297;  
 Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GTTTCGTGTTCTCGGGAATGTCAGTCTGAGCTTATATACATCTGGTCTCTGGAGCTGCAGT 60  
 Db 117 GTTTCGTGTTCTCGGGAATGTCAGTCTGAGCTTATATACATCTGGTCTCTGGAGCTGCAGT 176  
 Qy 61 GGATGGGCAATTTGTGAGAGCACTATGGGAGTCACTCTCTCTGTCATGCGCTCC 120  
 Db 177 GGATGGGCAATTTGTGAGAGCACTATGGGAGTCACTCTCTCTGTCATGCGCTCC 236  
 Qy 121 TGCTCTCTGGTGTCTTTCATGAAGAGTCAAGCATATTTCAACAGAGCTGGAGAACTGC 180  
 Db 237 TGCTCTCTGGTGTCTTTCATGAAGAGTCAAGCATATTTCAACAGAGCTGGAGAACTGC 296

Qy 181 CATGCAATTTTCAAACTCTCAAAACATTAAGCTCGATGAGCTGGTGTATTTTGGCAGG 240  
 Db 297 CATGCAATTTTCAAACTCTCAAAACATTAAGCTCGATGAGCTGGTGTATTTTGGCAGG 356  
 Qy 241 ACCAGATTAAGCTGCTCTGTATGAGATATTCAGAGGCAAGAGAACTCTCAAAATGTTT 300  
 Db 357 ACCAGATTAAGCTGCTCTGTATGAGATATTCAGAGGCAAGAGAACTCTCAAAATGTTT 416  
 Qy 301 ATCTCAATATTAAGGCGCTTACAGCTTTTGAAGAGCAAACTGGAACCTCTGAGACTCCACA 360  
 Db 417 ATCTCAATATTAAGGCGCTTACAGCTTTTGAAGAGCAAACTGGAACCTCTGAGACTCCACA 476  
 Qy 361 ATGTTTCAGATCAAGGACCAAGGCGACATATCATCTGTTTTCATTTATTAAGGGGCCAAAG 420  
 Db 477 ATGTTTCAGATCAAGGACCAAGGCGACATATCATCTGTTTTCATTTATTAAGGGGCCAAAG 536  
 Qy 421 GACTAGTTTCCCATGCACTCAAAATGAGTTCTGACCTATCAGTGTCTTCACTTCACTCAAC 480  
 Db 537 GACTAGTTTCCCATGCACTCAAAATGAGTTCTGACCTATCAGTGTCTTCACTTCACTCAAC 596  
 Qy 481 CTGAATTAACAGTAACTTCTTAATAGAACAGAAATTTCTGGCATCAAAATTTGACCTGCT 540  
 Db 597 CTGAATTAACAGTAACTTCTTAATAGAACAGAAATTTCTGGCATCAAAATTTGACCTGCT 656  
 Qy 541 CATCTATCAAGGTTTACCCAGAACCTTAAGGAGATGATTTTTCAGCTTAACACTGAGATT 600  
 Db 657 CATCTATCAAGGTTTACCCAGAACCTTAAGGAGATGATTTTTCAGCTTAACACTGAGATT 716  
 Qy 601 CAATCTAAGTATGATATCTGTCTATGAGAAATTTCTCAAAATTAATGTGACAGAACTGTACA 660  
 Db 717 CAATCTAAGTATGATATCTGTCTATGAGAAATTTCTCAAAATTAATGTGACAGAACTGTACA 776  
 Qy 661 AGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGGACACAAATGTGAGCGTCTTTTGTG 720  
 Db 777 AGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGGACACAAATGTGAGCGTCTTTTGTG 836  
 Qy 721 CCCTGAATCTGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAAAC 780  
 Db 837 CCCTGAATCTGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAAAC 896  
 Qy 781 CTAAGGATTAAGACCCCTGAAACAGGCCCACTTCTCTGAGTTGCGCTGTACTTGAATGT 840  
 Db 897 CTAAGGATTAAGACCCCTGAAACAGGCCCACTTCTCTGAGTTGCGCTGTACTTGAATGT 956  
 Qy 841 TTGTTGTTTTTGTGGATGCTGCTCTTTAAACACATAAGGAAAGGAGAGAGAGAGAGAG 900  
 Db 957 TTGTTGTTTTTGTGGATGCTGCTCTTTAAACACATAAGGAAAGGAGAGAGAGAGAGAG 1016  
 Qy 901 CTGGCCCTCTCATGAATGTGAAACCAATCAAAAGGGAGAGAAAGAGAGAGAGAGAGAG 960  
 Db 1017 CTGGCCCTCTCATGAATGTGAAACCAATCAAAAGGGAGAGAAAGAGAGAGAGAGAGAG 1076  
 Qy 961 ACAGAAAGAGTACCATACCTGAGATCTGATGAGGCCAGTGTGTAAGCCATTTTAAACATTT 1020  
 Db 1077 ACAGAAAGAGTACCATACCTGAGATCTGATGAGGCCAGTGTGTAAGCCATTTTAAACATTT 1136  
 Qy 1021 TGAAGACAGCTCAGGGGACAAAT 1046  
 Db 1137 TGAAGACAGCTCAGGGGACAAAT 1162

RESULT 4

US-10-790-396-27/c  
 ; Sequence 27, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
 ; FILE REFERENCE: IM-1-Cl-PCT  
 ; CURRENT APPLICATION NUMBER: US/10/790,396

```
/ CURRENT FILING DATE: 2004-03-01
/ PRIOR APPLICATION NUMBER: US/09/646,561
/ PRIOR FILING DATE: 2000-09-19
/ PRIOR APPLICATION NUMBER: 60/078,765
/ PRIOR FILING DATE: 1998-03-19
/ PRIOR APPLICATION NUMBER: 09/062,597
/ PRIOR FILING DATE: 1998-04-17
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: Patent in Ver. 2.0
/ SEQ ID NO 27
/ LENGTH: 2830
/ TYPE: DNA
/ ORGANISM: Felis catus
US-10-790-396-27

Query Match
Best Local Similarity 99.7%; Score 1041.2; DB 19; Length 2830;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTTCCTGTTCTCTGGGAATGTCAGTCTGATTTATACATCTGGTCTCTGGGAGCTGCACT 60
DB 2714 GTTTCCTGTTCTCTGGGAATGTCAGTCTGATTTATACATCTGGTCTCTGGGAGCTGCACT 2655

QY 61 GATGGGCAATTTGTGACGACCTATGGGACTGAGTCACTCTCTCTGATGGCCCTCC 120
DB 2654 GATGGGCAATTTGTGACGACCTATGGGACTGAGTCACTCTCTCTGATGGCCCTCC 2595

QY 121 TGCTCTCTGTTCTCTTCATGAGAGTCAAGCATTTTCAACAGACTGGAGAACTGC 180
DB 2594 TGCTCTCTGTTCTCTTCATGAGAGTCAAGCATTTTCAACAGACTGGAGAACTGC 2535

QY 181 CATGCCATTTTACAACTCTCAAACTATGAGTGGAGTGGAGTCTGTAGTATTTGTCAGG 240
DB 2534 CATGCCATTTTACAACTCTCAAACTATGAGTGGAGTGGAGTCTGTAGTATTTGTCAGG 2475

QY 241 ACCAGGATAGCTGTTCTGTATGATGATTTTCAAGGCAAGAGAACTCTCAAAATGTTTC 300
DB 2474 ACCAGGATAGCTGTTCTGTATGATGATTTTCAAGGCAAGAGAACTCTCAAAATGTTTC 2415

QY 301 ATCTCAATATTAAGGGCGGTACAAAGCTTTGACAGGCAACCTGAGACTCTGACACTCA 360
DB 2414 ATCTCAATATTAAGGGCGGTACAAAGCTTTGACAGGCAACCTGAGACTCTGACACTCA 2355

QY 361 ATGTTTCAGATCAAGGCAAGGGCACATATCACTGTTTCATTTATTAAGAGGCCCAAG 420
DB 2354 ATGTTTCAGATCAAGGCAAGGGCACATATCACTGTTTCATTTATTAAGAGGCCCAAG 2295

QY 421 GACTAGTTCCTGATGACCAATGAGTTCTGACCTATGAGTCTGCTTACCTGAGTCAAC 480
DB 2294 GACTAGTTCCTGATGACCAATGAGTTCTGACCTATGAGTCTGCTTACCTGAGTCAAC 2235

QY 481 CTGAATAACAGTAATCTCTTAATAGAACAGAAAATTTGCGCATCATAAATTTGACCTGCT 540
DB 2234 CTGAATAACAGTAATCTCTTAATAGAACAGAAAATTTGCGCATCATAAATTTGACCTGCT 2175

QY 541 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTTATTTTCACTAAGCACTGAGAAAT 600
DB 2174 CATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTTATTTTCACTAAGCACTGAGAAAT 2115

QY 601 CAATCTATAGTATGATCTGTCATGAGAAATCTCAAAATATGTCAGAGACTGTACA 660
DB 2114 CAATCTATAGTATGATCTGTCATGAGAAATCTCAAAATATGTCAGAGACTGTACA 2055

QY 661 ACGTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAAGCAACAATGTCAGGCGCTTTGTCG 720
DB 2054 ACGTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAAGCAACAATGTCAGGCGCTTTTTCG 1995

QY 721 CCCTGAACTGGAGACTGGAGTGTCTCTCCCTACCTTTTCAATATAGATGACACAC 780
DB 1994 CCCTGAACTGGAGACTGGAGTGTCTCTCCCTACCTTTTCAATATAGATGACACAC 1935

QY 781 CTAAGGATAAAGACCTTGAAAGGCACTTCTCTGATTTGGGCTGTACTGTTAATGT 840
DB 1934 CTAAGGATAAAGACCTTGAAAGGCACTTCTCTGATTTGGGCTGTACTGTTAATGT 1875

QY 841 TTGTTGTTTTTTTGTGGGATGTTGTTCTTTTAAACACTAAGCAAGCAAGCAAGCAGC 900
DB 1874 TTGTTGTTTTTTTGTGGGATGTTGTTCTTTTAAACACTAAGCAAGCAAGCAAGCAGC 1815

QY 901 CTGGCCCTCTCTCATGTAATGTGAACCATCAAAAGGAGAGAAAGAGAGCAAAACAGACCA 960
DB 1814 CTGGCCCTCTCTCATGTAATGTGAACCATCAAAAGGAGAGAAAGAGAGCAAAACAGACCA 1755

QY 961 ACGAAAGAGTACCATACACCTGAGAGATCTGATGAAGCCCACTGTTTAAACATTT 1020
DB 1754 ACGAAAGAGTACCATACACCTGAGAGATCTGATGAAGCCCACTGTTTAAACATTT 1695

QY 1021 TGAAGACAGCTCAGGGGCAAAAT 1046
DB 1694 TGAAGACAGCTCAGGGGCAAAAT 1669

RESULT 5
US-10-790-396-28
/ Sequence 28, Application US/10790396
/ Publication No. US20040157296A1
/ GENERAL INFORMATION:
/ APPLICANT: Sim, Gek-Ke
/ APPLICANT: Yang, Shumin
/ APPLICANT: Sellins, Karen S.
/ TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
/ FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF
/ FILE REFERENCE: IN-1-CL-PCT
/ CURRENT APPLICATION NUMBER: US/10/790,396
/ PRIOR FILING DATE: 2004-03-01
/ PRIOR APPLICATION NUMBER: US/09/646,561
/ PRIOR FILING DATE: 2000-09-19
/ PRIOR APPLICATION NUMBER: 60/078,765
/ PRIOR FILING DATE: 1998-03-19
/ PRIOR APPLICATION NUMBER: 09/062,597
/ PRIOR FILING DATE: 1998-04-17
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: Patent in Ver. 2.0
/ SEQ ID NO 28
/ LENGTH: 996
/ TYPE: DNA
/ ORGANISM: Felis catus
US-10-790-396-28

Query Match
Best Local Similarity 99.7%; Score 979.2; DB 19; Length 996;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 63 ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGATGGCCCTCTG 122
DB 1 ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTGTGATGGCCCTCTG 60

QY 123 CTCTCTGTTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA 182
DB 61 CTCTCTGTTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA 120

QY 183 TGCCATTTTCAAACTCTCAAAACATAGCCCTGAGTGGTGTAGTATTTTTCGAGGAC 242
DB 121 TGCCATTTTCAAACTCTCAAAACATAGCCCTGAGTGGTGTAGTATTTTTCGAGGAC 180

QY 243 CAGGATAGCTGTTCTGTATGAGATATTCAGAGCAAGAAAGAAACCTTCAAAATGTTTCAT 302
DB 181 CAGGATAGCTGTTCTGTATGAGATATTCAGAGCAAGAAAGAAACCTTCAAAATGTTTCAT 240

QY 303 CTCAATATTAAGGCGCTTACAGCTTTTGAAGGCAACTGCACTCTGAGACTCCCAAT 362
DB 241 CTCAATATTAAGGCGCTTACAGCTTTTGAAGGCAACTGCACTCTGAGACTCCCAAT 300

QY 363 GTTCAGATCAAGGCAAGGCACTATCACTGTTTTCATTTTCAATTAAGGCGCCCAAGGA 422
DB 301 GTTCAGATCAAGGCAAGGCACTATCACTGTTTTCATTTTCAATTAAGGCGCCCAAGGA 360
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Db 853 GTGAACCAACAAAGTGGAGAGAAAGAAAGTGGAGCAGACCAAGGAAGAGTACG5TACC 912  
 Qy 979 ACCTACCTGAGAGATCTGATGAAGCCAGCTGCTGTTTAAATTTTGAAGACAGCTCAGGG 1038  
 Db 913 ATGAACGGAAAGATCTGATGAAGCCAGCTGCTGTTTAAATTTTGAAGACAGCTCAGGG 972  
 Qy 1039 ACAAAAT 1046  
 Db 973 ACAACAGT 980

RESULT 10  
 US-10-790-396-8/c  
 ; Sequence 8, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-Kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
 ; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
 ; FILE REFERENCE: IN-1-C1-PCT  
 ; CURRENT APPLICATION NUMBER: US/10790,396  
 ; PRIOR FILING DATE: 2004-03-01  
 ; PRIOR APPLICATION NUMBER: US/09/646,561  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 09/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 8  
 ; LENGTH: 1897  
 ; TYPE: DNA  
 ; ORGANISM: Canis familiaris  
 US-10-790-396-8

Query Match 71.6%; Score 772.8; DB 19; Length 1897;  
 Best Local Similarity 88.8%; Pred. No. 1.9e-217;  
 Matches 860; Conservative 0; Mismatches 102; Indels 6; Gaps 2;  
 Qy 79 GCATATGGAGCTGAGTACACACTCTCTTGTGATGGCCCTCTGCTCTCTGCTGCTTCTT 138  
 Db 1879 GCATATGGAGCTGAGTACACACTCTCTTGTGATGGCCCTCTGCTCTCTGCTGCTT 1820  
 Qy 139 CCATGAGCTGAGCATATTTCAACAGAGCTGGAGAGTCCATCCATTTTACAACT 198  
 Db 1819 CCATGAGCTGAGCATATTTCAACAGAGCTGGAGAGTCCATCCATTTTACAACT 1760  
 Qy 199 CTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACAGGATAGCTGGTTC 258  
 Db 1759 CTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACAGGATAGCTGGTTC 1700  
 Qy 259 TGTATGATATTCAGAGCAAGAGAACCTCAAAATGTTTCTCAATATTAAGGGCC 318  
 Db 1699 TGTATGATATTCAGAGCAAGAGAACCTCAAAATGTTTCTCAATATTAAGGGCC 1640  
 Qy 319 GTACAGCTTTGACAGGACAACTGGACCTGAGACTCCCAATGTTTCAAGTCAAGAGACA 378  
 Db 1639 GTACAGCTTTGACAGGACAACTGGACCTGAGACTCCCAATGTTTCAAGTCAAGAGACA 1580  
 Qy 379 AGGACATATCACTGTTTCATTCATTAAGAGGAGCCCAAGAGGAGTGTCCCATGACCC 438  
 Db 1579 AGGACATATCACTGTTTCATTCATTAAGAGGAGCCCAAGAGGAGTGTCCCATGACCC 1520  
 Qy 439 AATGAGCTTCTGACCTATCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 498  
 Db 1519 AATGAGCTTCTGACCTATCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1460  
 Qy 499 CTAATAGAAACAGAAATTTCTGGGATCATTAATTTTGAATCTGCTATCTATCAAGGTTACC 558  
 Db 1459 CTAATAGAAACAGAAATTTCTGGGATCATTAATTTTGAATCTGCTATCTATCAAGGTTACC 1400

Qy 559 CAGAACCTAAGGAGATGTTATTTTCACTAAACACTGAGAAATTCAACTACTAAGCTATGATA 618  
 Db 1399 CAGAACCTAAGGAGATGTTATTTTGGTAAACCCGAGAAATTCAGTACTAAGTATGATA 1340  
 Qy 619 CTGTGATGAGAAATCTCAAAATATGTCAGAGAACTGTACAAAGTCTTCTATCAGCTTGC 678  
 Db 1339 CTGTGATGAGAAATCTCAAAATATGTCAGAGAACTGTACAAAGTCTTCTATCAGCTTGC 1280  
 Qy 679 CTTTTTCAGTCCCTGAGCACAATGAGCGCTTTTGTGCGCCCTGAACTGGAGACAC 738  
 Db 1279 CTTTTTCAGTCCCTGAGCACAATGAGCGCTTTTGTGCGCCCTGAACTGGAGACAC 1220  
 Qy 739 TGGAGATGCTGCTCTCCCTACCTTTCATATAGATGACAACTTAAGGATAAAGACCCCTG 798  
 Db 1219 T---GAAAGCTTCCCTCCCTACCTTATATATAGATGACACA---TACGAAACCCACCCCTG 1166  
 Qy 799 AACAGGCCACTCTCTCTGATGAGTGGCTGTACTTGTAAATGTTTGTGTTTGTGGGA 858  
 Db 1165 ATGAGAGACCACTCTCTGATGAGTGGCTGTACTTGTAAATGTTTGTGTTTGTGGGA 1106  
 Qy 859 TGGTGTCTTTTAAACACTTAAGAAAGAAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAG 918  
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 Qy 919 GTGAAACCATCAAG 978  
 Db 1045 GTGAAACCATCAAG 986  
 Qy 979 AGTACCTGAGAGATCTGATGAAGCCAGTGTGTAACTTTTGAAGACAGAGCTCAGGGG 1038  
 Db 985 ATGAAACGGAAAGATCTGATGAAGCCAGTGTGTAACTTTTGAAGACAGAGCTTCAAGGG 926  
 Qy 1039 ACAAAAT 1046  
 Db 925 ACAACAGT 918

RESULT 11  
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 ; Sequence 19, Application US/10790396  
 ; Publication No. US20040157296A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-Kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
 ; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
 ; FILE REFERENCE: IN-1-C1-PCT  
 ; CURRENT APPLICATION NUMBER: US/10790,396  
 ; PRIOR FILING DATE: 2004-03-01  
 ; PRIOR APPLICATION NUMBER: US/09/646,561  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 09/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 19  
 ; LENGTH: 840  
 ; TYPE: DNA  
 ; ORGANISM: Canis familiaris  
 US-10-790-396-19

Query Match 53.9%; Score 582.2; DB 19; Length 840;  
 Best Local Similarity 89.4%; Pred. No. 3.1e-161;  
 Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;  
 Qy 79 GCATATGGAGCTGAGTACACACTCTCTTGTGATGGCCCTCTGCTCTCTGCTGCTTCTT 138  
 Db 14 GCATATGGAGCTGAGTACACACTCTCTTGTGATGGCCCTCTGCTCTCTGCTGCTTCTT 73



; SEQ ID NO 16  
; LENGTH: 1795  
; TYPE: DNA  
; ORGANISM: Canis familiaris  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (7)..(846)  
US-10-790-396-16

Query Match 53.9%; Score 582.2; DB 19; Length 1795;  
Best Local Similarity 89.4%; Pred. No. 4.8e-161;  
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;  
QY 79 GCACATATGGGACCTGAGTCAACATATTTCAACAGACTGGAGAACTGCCATGCTCAATTTACAACT 138  
DB 20 GCATATGGAACTGAATACATTTCTTTTGTGATGACCTCTCTCTCTATGGTCTGCTT 79  
QY 139 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCTCAATTTACAACT 198  
DB 80 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCTCAATTTACAACT 139  
QY 199 CTCAAAACATAAGCCTGGATGAGTGTAGTATTTTGGCAGGACCGAGTAAGCTGGTTC 258  
DB 140 CTCAAAACATAAGCCTGGATGAGTGTAGTATTTTGGCAGGACCGAGTAAGCTGGTTC 199  
QY 259 TGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTCATCTCAATATATAGGGCC 318  
DB 200 TGTACGAGCTATACAGAGGCAAGAGAACCTTCAAAATGTTTCATGCAAGTATAGGGCC 259  
QY 319 GTACAAAGCTTTGACAGGCAAGCTGGACCTGAGACTCCATATATTCAGATCAAGGACA 378  
DB 260 GCAAAAGCTTTGACAGGCAAGCTGGACCTGAGACTCCATATATTCAGATCAAGGACA 319  
QY 379 AGGCAATATCACTGTTTCATTTATTAAGGSCCCAAAGGACTAGTTCCTCATGACC 438  
DB 320 AGGCTTGTATCAATGTTTGGTTCATTAAGGSCCCAAAGGACTAGTTCCTCATGACC 379  
QY 439 AAATGAGTTCAGACCTATCAGTGTCTTCACTTCACTCAACCTGAAATTAAGTAACCT 498  
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DB 500 CAGAACCTAAGGAGATGATTTTTCAGCTAAACACTGAGAACTCACTTCACTTAAGTATGATA 559  
QY 619 CTGTCATGAAGAAATCTCAAAATATATGTCAGAGAACTGTACAAAGTTTCTATCAGCTTGC 678  
DB 560 CTGTCATGAAGAAATCTCAAAATATATGTCAGAGAACTGTACAAAGTTTCTATCAGCTTGT 619  
QY 679 CTTTTCAGTCCCTGGAAGCACAATGTGAGCGTCTTTTGGCCCTGAAACTGGAGACAC 738  
DB 620 CTTTTCAGTCCCTGGAAGCACAATGTGAGCGTCTTTTGGCCCTGAAACTGGAGTCAA 679  
QY 739 TGGAGATGCTGCTCCCTACCTTTCAATATAGATGCAACACCTTAAGATTAAGA 793  
DB 680 T---GAAGCTTCCCTCCCTACCTTTAATATATAGAAACCAAAAGTGGAGAGAA 731

## RESULT 14

US-10-790-396-18/c  
; Sequence 18, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim. Gek-Ke  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT

; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 1795  
; TYPE: DNA  
; ORGANISM: Canis familiaris  
US-10-790-396-18

Query Match 53.9%; Score 582.2; DB 19; Length 1795;  
Best Local Similarity 89.4%; Pred. No. 4.8e-161;  
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;  
QY 79 GCACATATGGGACCTGAGTCAACATATTTCAACAGACTGGAGAACTGCCATGCTCAATTTACAACT 138  
DB 1776 GCATATGGAACTGAATACATTTCTTTTGTGATGACCTCTCTCTCTATGGTCTGCTT 1717  
QY 139 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCTCAATTTACAACT 198  
DB 1716 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCTCAATTTACAACT 1657  
QY 199 CTCAAAACATAAGCCTGGATGAGTGTAGTATTTTGGCAGGACCGAGTAAGCTGGTTC 258  
DB 1656 CTCAAAACATAAGCCTGGATGAGTGTAGTATTTTGGCAGGACCGAGTAAGCTGGTTC 1597  
QY 259 TGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTCATCTCAATATATAGGGCC 318  
DB 1596 TGTACGAGCTATACAGAGGCAAGAGAACCTTCAAAATGTTTCATGCAAGTATAGGGCC 1537  
QY 319 GTACAAAGCTTTGACAGGCAAGCTGGACCTGAGACTCCATATATTCAGATCAAGGACA 378  
DB 1536 GCAAAAGCTTTGACAGGCAAGCTGGACCTGAGACTCCATATATTCAGATCAAGGACA 1477  
QY 379 AGGCAATATCACTGTTTCATTTATTAAGGSCCCAAAGGACTAGTTCCTCATGACC 438  
DB 1476 AGGCTTGTATCAATGTTTGGTTCATTAAGGSCCCAAAGGACTAGTTCCTCATGACC 1417  
QY 439 AAATGAGTTCAGACCTATCAGTGTCTTCACTTCACTCAACCTGAAATTAAGTAACCT 498  
DB 1416 AGATGAATTCAGACCTATCAGTGTCTTCACTTCACTCAACCTGAAATTAAGTAACCT 1357  
QY 499 CTAAATAGAACAGAAAATTCGGCATCAATAATTTGACCTGCTCATCTATCAAGGTTACC 558  
DB 1356 CTAAATAGAACAGAAAATTCGGCATCAATAATTTGACCTGCTCATCTATCAAGGTTACC 1297  
QY 559 CAGAACCTAAGGAGATGATTTTTCAGCTAAACACTGAGAACTCACTTCACTTAAGTATGATA 618  
DB 1296 CAGAACCTAAGGAGATGATTTTTCAGCTAAACACTGAGAACTCACTTCACTTAAGTATGATA 1237  
QY 619 CTGTCATGAAGAAATCTCAAAATATATGTCAGAGAACTGTACAAAGTTTCTATCAGCTTGC 678  
DB 1236 CTGTCATGAAGAAATCTCAAAATATATGTCAGAGAACTGTACAAAGTTTCTATCAGCTTGT 1177  
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DB 1176 CTTTTCAGTCCCTGGAAGCACAATGTGAGCGTCTTTTGGCCCTGAAACTGGAGTCAA 1117  
QY 739 TGGAGATGCTGCTCCCTACCTTTCAATATAGATGCAACACCTTAAGATTAAGA 793  
DB 1116 T---GAAGCTTCCCTCCCTACCTTTAATATATAGAAACCAAAAGTGGAGAGAA 1065

## RESULT 15

US-09-962-436-556  
; Sequence 556, Application US/09962436  
; Patent No. US20020081301A1

**GENERAL INFORMATION:**

APPLICANT: Soppet, Daniel

**TITLE OF INVENTION:** Cancer Gene Determination and Therapeutic Screening Using Signature

: TITLE OF INVENTION: CANCER  
: TITLE OF INVENTION: SETB

FILE REFERENCE: 689290-75

FILE REFERENCE: 689290-75  
CURRENT APPLICATION NUMBER: IIS/09/962 436

; CURRENT APPLICATION NUMBER: US/01-09-25  
 : CURRENT BILLING DATE: 2001-09-25

CURRENT FILING DATE: 2001-09-25  
 PRIORITY APPLICATION NUMBER: US/50/335 082

PRIOR APPLICATION NUMBER: US/60/235,082

;; PRIOR FILING DATE: 2000-09-25

PRIOR APPLICATION NUMBER: US/

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;  
; PRIOR FILING DATE: 2000-09-25

; NUMBER OF SEC

; SOFTWARE: PAC

SEQ ID NO 5

: LENGTH: 1424

TYPE: DNA

Query Match 53.8%; Score 580.6; DB 9; Length 1424;  
Best Local Similarity 75.9%; Pred. No. 1.3e-160;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

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Qy	58	AGTGGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCC	117
Db	122	AGTGGACAGGCATTTGTGACAGCACTATGGGACTGAGTAAACATCTCTTTGTGTATGCCCT	181
Qy	118	TCCTGCTCTCTGGTGTCTTCTGATGAAGAGTCAAGCATATTTCAACAAGACTGGGAAC	177
Db	182	TCCTGCTCTCTGGTGTCTCTCTGAAGATTCAAGCTTATTTCAATGAGACTGCGAGCC	241
Qy	178	TGCGATGCCATTTTACAACTCTCTCAAAACAATAAGCCTGGATGAGCTGTGATATTTTGGC	237
Db	242	TGGCATGCCAATTTTGCAAACTCTCAAAACCAAGCCTGAGTGAGCTAGTATATTTTGGC	301
Qy	238	AGDACCAGAGATAAGCTGCTTCTGTATCGAGATATTCAGAGGCAAGAGAACCCCTCAAAATG	297
Db	302	AGDCCAGGAAACTTGTGTTCTGATAGAGTATCTTAGGCGAAGAGAAATTTGACATG	361
Qy	298	TTCACTCTCAAAATATAAGGGCCGTACAAGCTTTGCAAGAAGCAACTGGACCCCTGAGATCC	357
Db	362	TTCAITCCAAATATATGGGCGGCAAAAGTTTTCGATTCGGACAGTTGGACCCCTGAGATTC	421
Qy	358	ACAAATGTTTCAGATCAAGGACAAGGGCACATATCACTGTTTCATTCATTATTAAGAGGCCCA	417
Db	422	ACAACTTTGAGATCAAGGACAGGGCTTGATGATATATCATATCATCTCAAAAAGCCCA	481
Qy	418	AAGGACTAGTCTCCATGCAACAAATAGTTCTGACCTATFCAGTGTCTGCTAACTTCAGTGC	477
Db	482	CAGGAATGATTCGCATCCACCATGATTAATTTCTGAACTGTCTGAGTGTCTGCTAACTTCAGTGC	541
Qy	478	AACCTGAAATACACAGTAATCTCTAATAGAACAGAAATTTCTGGCATCATAAATTTTCACCT	537
Db	542	AACCTGAAATAGTACCAATTTCTAATATACAGAAA---TGTGTACATAAATTTGACCT	598
Qy	538	GCTCATCTATACAGGTTATCCAGAACCTAAGGAGATGATATTTTCAGCTAAACACTGAGA	597
Db	599	GCTCATCTATACACGGTTATCCCAAGACCTAAGAAAGATGATGTTTTCCTAAGAACCAAGA	658
Qy	598	ATTCAACTACTAAGTATGATCTGTCTATGAAGAAATCTCAAAATAATATGTGACAGAACTGT	657
Db	659	ATTCAACTATTCAGTATGATGTGATATATGACAGAAATCTCAAGATAATGTACAGAACTGT	718
Qy	658	ACAACGTTTCTATCAGCTTGTGCTTTTTCAGTCCCTGAG---CACACAATGTGAGGCTCT	714
Db	719	ACGACGTTTCCATACAGCTTGTCTGTTTTCATCTCCCTGATGTTACGAGCAATATGACCATCT	778
Qy	715	TTTGTGCCCTCAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCATATATAGATG	774

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(without alignments)  
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Perfect score: 1080

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Searched: 45554873 seqs, 20411521753 residues

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112: /cgn2\_6/ptodata/1/pna/US0999 COMB.seq.\*  
113: /cgn2\_6/ptodata/1/pna/US0999 COMB.seq.\*  
114: /cgn2\_6/ptodata/1/pna/US0999 COMB.seq.\*  
115: /cgn2\_6/ptodata/1/pna/US0999 COMB.seq.\*  
116: /cgn2\_6/ptodata/1/pna/US0999 COMB.seq.\*

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 118: /cgm2\_6/ptodata/1/pna/us6048\_COMB.seq:  
 119: /cgm2\_6/ptodata/1/pna/us6049\_COMB.seq:  
 120: /cgm2\_6/ptodata/1/pna/us6050\_COMB.seq:  
 121: /cgm2\_6/ptodata/1/pna/us6051\_COMB.seq:  
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 123: /cgm2\_6/ptodata/1/pna/us6053\_COMB.seq:  
 124: /cgm2\_6/ptodata/1/pna/us6054\_COMB.seq:  
 125: /cgm2\_6/ptodata/1/pna/us6055\_COMB.seq:  
 126: /cgm2\_6/ptodata/1/pna/us6056\_COMB.seq:  
 127: /cgm2\_6/ptodata/1/pna/us6057\_COMB.seq:  
 128: /cgm2\_6/ptodata/1/pna/us6058\_COMB.seq:  
 129: /cgm2\_6/ptodata/1/pna/us6059\_COMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	1080	100.0	1080	16	US-09-071-699-5
2	1080	100.0	1080	20	US-09-303-040-5
3	1080	100.0	1080	20	US-09-303-510-5
4	1041.2	96.4	2830	16	US-09-062-597A-25
5	1041.2	96.4	2830	29	US-09-062-597A-27
6	1041.2	96.4	2830	29	US-09-062-597A-25
7	1041.2	96.4	2830	29	US-09-062-597A-27
8	1041.2	96.4	2830	62	US-10-790-396-25
9	1041.2	96.4	2830	62	US-10-790-396-27
10	979.2	90.7	936	16	US-09-062-597A-28
11	979.2	90.7	936	16	US-09-062-597A-29
12	979.2	90.7	936	29	US-09-062-597A-28
13	979.2	90.7	936	29	US-09-062-597A-29
14	979.2	90.7	936	62	US-10-790-396-28
15	979.2	90.7	936	62	US-10-790-396-29
16	772.8	71.6	987	16	US-09-062-597A-9
17	772.8	71.6	987	16	US-09-062-597A-10
18	772.8	71.6	987	29	US-09-062-597A-9
19	772.8	71.6	987	29	US-09-062-597A-10
20	772.8	71.6	987	62	US-10-790-396-9
21	772.8	71.6	987	62	US-10-790-396-10
22	772.8	71.6	1897	16	US-09-062-597A-6
23	772.8	71.6	1897	16	US-09-062-597A-8
24	772.8	71.6	1897	29	US-09-062-597A-6
25	772.8	71.6	1897	29	US-09-062-597A-8
26	772.8	71.6	1897	62	US-10-790-396-6
27	772.8	71.6	1897	62	US-10-790-396-8
28	772.8	71.6	1897	66	US-10-956-160-2850
29	772.8	71.6	1897	120	US-60-507-481-2850
30	612.4	56.7	994	37	US-09-868-605-13
31	582.2	53.9	840	16	US-09-062-597A-19
32	582.2	53.9	840	16	US-09-062-597A-20
33	582.2	53.9	840	29	US-09-062-597A-19
34	582.2	53.9	840	29	US-09-062-597A-20
35	582.2	53.9	840	62	US-10-790-396-19
36	582.2	53.9	840	62	US-10-790-396-20
37	582.2	53.9	1795	16	US-09-062-597A-16
38	582.2	53.9	1795	16	US-09-062-597A-18
39	582.2	53.9	1795	29	US-09-062-597A-16
40	582.2	53.9	1795	29	US-09-062-597A-18
41	582.2	53.9	1795	62	US-10-790-396-16
42	582.2	53.9	1795	62	US-10-790-396-18
43	582.2	53.9	1795	66	US-10-956-160-2851
44	582.2	53.9	1795	120	US-60-507-481-2851
45	580.6	53.8	1424	1	PCT-US02-18947-1336

ALIGNMENTS

RESULT 1									
US-09-071-699-5									
Sequence 5, Application US/09071699A									
GENERAL INFORMATION:									
APPLICANT: Collisson, Ellen W									
APPLICANT: Hash, Stephen M.									
APPLICANT: Inou, Choi									
TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CTLA-4 Nucleic Acid									
FILE OF INVENTION: And Polypeptides									
TITLE REFERENCE: 54954-A									
CURRENT APPLICATION NUMBER: US/09/071,699A									
CURRENT FILING DATE: 1998-05-01									
NUMBER OF SEQ ID NOS: 55									
SOFTWARE: PatentIn Ver. 2.0									
SEQ ID NO 5									
LENGTH: 1080									
TYPE: DNA									
ORGANISM: feline CD86									
FEATURES:									
NAME/KEY: CDS									
LOCATION: (63)..(1052)									
US-09-071-699-5									
Query Match									
Best Local Similarity 100.0%; Score 1080, DB 16; Length 1080;									
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
Qy	1	GTTCCTGTGTTCTTCGGGAATGTCACCTGAGCTTATACATCTGCTCTCGGAGCTGCAGT	60						
Db	1	GTTCCTGTGTTCTTCGGGAATGTCACCTGAGCTTATACATCTGCTCTCGGAGCTGCAGT	60						
Qy	61	GGATGGGCATTTTGACAGCCTATGGGACCTGAGTCACACTCTCTCTTGATGGCCCTCC	120						
Db	61	GGATGGGCATTTTGACAGCCTATGGGACCTGAGTCACACTCTCTCTTGATGGCCCTCC	120						
Qy	121	TGCTCTCTGTGTTCTTCCTCATGAAGAGTCAAGCATATTTCAACAGACTGGAGACTGC	180						
Db	121	TGCTCTCTGTGTTCTTCCTCATGAAGAGTCAAGCATATTTCAACAGACTGGAGACTGC	180						
Qy	181	CATGCCATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG	240						
Db	181	CATGCCATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG	240						
Qy	241	ACCAAGATAAGCTGGTCTCTGTATGAGATATTTCAAGAGGCAAGAGAACTCTCAAAATGTTT	300						
Db	241	ACCAAGATAAGCTGGTCTCTGTATGAGATATTTCAAGAGGCAAGAGAACTCTCAAAATGTTT	300						
Qy	301	ATCTCAATATAGGCGCTTACAGCTTTGCAAGGCACTGGACCTGGAGCTCCACA	360						
Db	301	ATCTCAATATAGGCGCTTACAGCTTTGCAAGGCACTGGACCTGGAGCTCCACA	360						
Qy	361	ATGTTTCAGATCAAGGCAAGGCACTATCACTCTGTTTCATTTCATTATTAAGGCCCCAAG	420						
Db	361	ATGTTTCAGATCAAGGCAAGGCACTATCACTCTGTTTCATTTCATTATTAAGGCCCCAAG	420						
Qy	421	GACTAGTTCCTATGACCAAAATGAGTCTGACCTATCACTGCTGCTGCTCACTCAAC	480						
Db	421	GACTAGTTCCTATGACCAAAATGAGTCTGACCTATCACTGCTGCTGCTCACTCAAC	480						
Qy	481	CTGAAATACAGTAAGTCTTCTATAGCAAGCAAAATTCGGCATCATTAATTTGACCTGCT	540						
Db	481	CTGAAATACAGTAAGTCTTCTATAGCAAGCAAAATTCGGCATCATTAATTTGACCTGCT	540						
Qy	541	CATCTATACAGGTTTACCAGAACTTAAGGAGATGATATTTTCAGCTTAAACACTGAGAAAT	600						
Db	541	CATCTATACAGGTTTACCAGAACTTAAGGAGATGATATTTTCAGCTTAAACACTGAGAAAT	600						
Qy	601	CAACTACTAGTATGATCTGTCATGAAGAAATCTCAAAATTAATGTGACAGAACTGTACA	660						
Db	601	CAACTACTAGTATGATCTGTCATGAAGAAATCTCAAAATTAATGTGACAGAACTGTACA	660						
Qy	661	ACGTTTCTATCAGCTGCTCTTTTTCAGTCCCTGAAGCACAATGTGAGGCTCTTTGTG	720						



LENGTH: 1080  
TYPE: DNA  
ORGANISM: Peline  
US-09-303-510-5

Query Match 100.0%; Score 1080; DB 20; Length 1080;  
Best Local Similarity 100.0%; Pred. No. 2.4e-298;  
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGGAGCTGCACT 60  
DB 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGGAGCTGCACT 60  
QY 61 GGATGGGCAATTTGTGACGACACTATGGGAGTGGAGTCACTCTCTTGTGATGGCCCTCC 120  
DB 61 GGATGGGCAATTTGTGACGACACTATGGGAGTGGAGTCACTCTCTTGTGATGGCCCTCC 120  
QY 121 TGCTCTCTGGTGTCTTTCATGAGAGTCAAGCATATTTCAACAGACTGGGAGACTGC 180  
DB 121 TGCTCTCTGGTGTCTTTCATGAGAGTCAAGCATATTTCAACAGACTGGGAGACTGC 180  
QY 181 CATGCCATTTTACAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 240  
DB 181 CATGCCATTTTACAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 240  
QY 241 ACCAGGATAGCTGGTCTGTATGATATTCAGAGGCAAGAGGACCCCTCAAAATGTTTC 300  
DB 241 ACCAGGATAGCTGGTCTGTATGATATTCAGAGGCAAGAGGACCCCTCAAAATGTTTC 300  
QY 301 ATCTCAATATAAGGCGGTACAAAGCTTTGACAGGACAACTGGACCTGAGACTCCACA 360  
DB 301 ATCTCAATATAAGGCGGTACAAAGCTTTGACAGGACAACTGGACCTGAGACTCCACA 360  
QY 361 ATGTTTCAGATCAAGGACGAGGACATATCTGCTGTTTCATTATTAAGGCGCCCAAG 420  
DB 361 ATGTTTCAGATCAAGGACGAGGACATATCTGCTGTTTCATTATTAAGGCGCCCAAG 420  
QY 421 GACTAGTTCCTGACCAATAGATTTCTGACCTATGAGTCTGCTTAACTTCGATCAAC 480  
DB 421 GACTAGTTCCTGACCAATAGATTTCTGACCTATGAGTCTGCTTAACTTCGATCAAC 480  
QY 481 CTGAATAACAGTAACCTTCTAATAGAACAGAAATTTCTGSCATCATAAATTTGACCTGCT 540  
DB 481 CTGAATAACAGTAACCTTCTAATAGAACAGAAATTTCTGSCATCATAAATTTGACCTGCT 540  
QY 541 CATCTATACAGGTTTACCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGATT 600  
DB 541 CATCTATACAGGTTTACCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGATT 600  
QY 601 CAATCTAATAGTATGATATCTGTCATGAAGAAATCTCAAAATATATGTGACAGAACTTACA 660  
DB 601 CAATCTAATAGTATGATATCTGTCATGAAGAAATCTCAAAATATATGTGACAGAACTTACA 660  
QY 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCTCTGAGGACACAAATGTGAGGCTCTTTTGTG 720  
DB 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCTCTGAGGACACAAATGTGAGGCTCTTTTGTG 720  
QY 721 CCCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACACAC 780  
DB 721 CCCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACACAC 780  
QY 781 CTAAGGATAAGACCTCTGAAACAGGSCACTTCTCTGGAATGCGGCTGTATCTGTATATGT 840  
DB 781 CTAAGGATAAGACCTCTGAAACAGGSCACTTCTCTGGAATGCGGCTGTATCTGTATATGT 840  
QY 841 TGTGTTGTTTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAGAGAGAGCAGC 900  
DB 841 TGTGTTGTTTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAGAGAGAGCAGC 900  
QY 901 CTGCGCCCTCTCTGAAATGTGAAACATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG 960  
DB 901 CTGCGCCCTCTCTGAAATGTGAAACATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAG 960

## RESULT 4

US-09-062-597A-25  
; Sequence 25, Application US/09062597A  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND  
; TITLE OF INVENTION: USES THEREOF  
; NUMBER OF SEQUENCES: 29  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Carol Talkington Verser, Ph.D.  
; ADDRESS: Haska Corporation  
; STREET: 1825 Sharp Point Drive  
; CITY: Fort Collins  
; STATE: Colorado  
; COUNTRY: USA  
; ZIP: 80525  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: WordPerfect for Windows, Version 7.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/062,597A  
; FILING DATE: 17-APR-1998  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Verser, Carol Talkington  
; REGISTRATION NUMBER: 37,459  
; REFERENCE/DOCKET NUMBER: IM-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 970/493-7272  
; TELEFAX: 970/484-9505  
; INFORMATION FOR SEQ ID NO: 25:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2830 nucleotides  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 179..1174  
; US-09-062-597A-25

Query Match 96.4%; Score 1041.2; DB 16; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGGAGCTGCACT 60  
DB 117 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGGAGCTGCACT 176  
QY 61 GGATGGGCAATTTGTGACGACACTATGGGAGTGGAGTCACTCTCTTGTGATGGCCCTCC 120  
DB 177 GGATGGGCAATTTGTGACGACACTATGGGAGTGGAGTCACTCTCTTGTGATGGCCCTCC 236  
QY 121 TGCTCTCTGGTGTCTTTCATGAGAGTCAAGCATATTTCAACAGACTGGGAGACTGC 180  
DB 237 TGCTCTCTGGTGTCTTTCATGAGAGTCAAGCATATTTCAACAGACTGGGAGACTGC 236  
QY 181 CATGCCATTTTACAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 240



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Db 297 CATGCCATTTTACAAACTCTCAAAACATAAAGCCTCGATGAGCTGTATGATTTTGGCAGG 356
Qy 241 ACCGAGTAAGCTGGTCTCTGTATGAGATATTGAGAGGCAAGAGAACCTCTCAAAATGTTT 300
Db 357 ACCGAGTAAGCTGGTCTCTGTATGAGATATTGAGAGGCAAGAGAACCTCTCAAAATGTTT 416
Qy 301 ATCTCAATATAAGGCGCTGACAGCTTTGACAGGCAAACTGAGACCTCGAGCTCCACA 360
Db 417 ATCTCAATATAAGGCGCTGACAGCTTTGACAGGCAAACTGAGACCTCGAGCTCCACA 476
Qy 361 ATGTTTCAGATCAAGGCAAGGCAATATCATCTGTTTCATTTATTAAGAGGCGCCAAAG 420
Db 477 ATGTTTCAGATCAAGGCAAGGCAATATCATCTGTTTCATTTATTAAGAGGCGCCAAAG 536
Qy 421 GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTTCTGCTAACTTCAGTCAAC 480
Db 537 GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTTCTGCTAACTTCAGTCAAC 596
Qy 481 CTGAATTAAGAGTAAGTCTTAATAGAAAGAAATTTCTGGCATCATTAATTTGACCTGCT 540
Db 597 CTGAATTAAGAGTAAGTCTTAATAGAAAGAAATTTCTGGCATCATTAATTTGACCTGCT 656
Qy 541 CATCTATCAAGGTTTACCCAGAACCTAAGGAGATGATTTTTCAGCTAAACACTGAGAAAT 600
Db 657 CATCTATCAAGGTTTACCCAGAACCTAAGGAGATGATTTTTCAGCTAAACACTGAGAAAT 716
Qy 601 CAATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
Db 717 CAATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 776
Qy 661 AGCTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAAGCAACAATGTCAGGCTTTTGTG 720
Db 777 AGCTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAAGCAACAATGTCAGGCTTTTGTG 836
Qy 721 CCCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAAAC 780
Db 837 CCCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACAAAC 896
Qy 781 CTAGGATTAAGACCTTGAACAGGCACTTCTCTGATTTGGCTGATGATGATGATGATGAT 840
Db 897 CTAGGATTAAGACCTTGAACAGGCACTTCTCTGATTTGGCTGATGATGATGATGATGAT 956
Qy 841 TTGTTGTTTTTGTGGATGCTGCTTTTAAACACTAAGGAAAGGAGGAGGAGGAGGAGCAG 900
Db 957 TTGTTGTTTTTGTGGATGCTGCTTTTAAACACTAAGGAAAGGAGGAGGAGGAGGAGCAG 1016
Qy 901 CTGCGCCCTCTCATGATGTAAGTGAACCTCAAAAGGAGGAGGAGGAGGAGGAGGAGGAG 960
Db 1017 CTGCGCCCTCTCATGATGTAAGTGAACCTCAAAAGGAGGAGGAGGAGGAGGAGGAGGAG 1076
Qy 961 ACBAAGAGTACCAATACCACTGATGAGATCTGATGAGGAGGAGGAGGAGGAGGAGGAG 1020
Db 1077 ACBAAGAGTACCAATACCACTGATGAGATCTGATGAGGAGGAGGAGGAGGAGGAGGAG 1136
Qy 1021 TGAAGACAGCCTCAGGCGGCAAAAAT 1046
Db 1137 TGAAGACAGCCTCAGGCGGCAAAAAT 1162
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## RESULT 5

US-09-062-597A-27/c

; Sequence 27, Application US/09062597A

; GENERAL INFORMATION:

; APPLICANT: Sim, Gek-kee

; APPLICANT: Yang, Shumin

; APPLICANT: Selline, Karen S.

; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY

; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND

; TITLE OF INVENTION: USES THEREOF

; NUMBER OF SEQUENCES: 29

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carol Talkington Vereer, Ph.D.

```
/ ADDRESS: Heeka Corporation
/ STREET: 1925 Sharp Point Drive
/ CITY: Fort Collins
/ STATE: Colorado
/ COUNTRY: USA
/ ZIP: 80525
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: Windows 95
/ SOFTWARE: WordPerfect for Windows, Version 7.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/062,597A
/ FILING DATE: 17-APR-1998
/ CLASSIFICATION: 514
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Vereer, Carol Talkington
/ REGISTRATION NUMBER: 37,459
/ REFERENCE/DOCKET NUMBER: IM-1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 970/493-7272
/ TELEFAX: 970/484-9505
/ INFORMATION FOR SEQ ID NO: 27:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2830 nucleotides
/ TYPE: nucleic acid
/ STRANDEDNESS: Single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ US-09-062-597A-27
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Query Match 96.4%; Score 1041.2; DB 16; Length 2830;

Best Local Similarity 99.7%; Pred. No. 5.4e-287;

Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy 1 GTTCTGTGTTCTCTGGGAATGTCACGTGAGCTTATACATCTGTGCTCTGGGAGCTGCAGT 60
Db 2714 GTTCTGTGTTCTCTGGGAATGTCACGTGAGCTTATACATCTGTGCTCTGGGAGCTGCAGT 2655
Qy 61 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCAACACTCTCTCTGTGTAGTCCCTCC 120
Db 2654 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCAACACTCTCTCTGTGTAGTCCCTCC 2595
Qy 121 TGCTCTCTGTGTTTCTTCCATGAGAGTCAAGCATATTTCAACAAGACTGCAAACTGC 180
Db 2594 TGCTCTCTGTGTTTCTTCCATGAGAGTCAAGCATATTTCAACAAGACTGCAAACTGC 2535
Qy 181 CATGCCATTTTCAAACTCTCAAAACATAGGCTGATGAGCTGTGTAGTATTTGGCAGG 240
Db 2534 CATGCCATTTTCAAACTCTCAAAACATAGGCTGATGAGCTGTGTAGTATTTGGCAGG 2475
Qy 241 ACCAGGATAAGCTGGTCTCTGTATGAGATATTGAGAGGCAAGAGAACCTCTCAAAATGTT 300
Db 2474 ACCAGGATAAGCTGGTCTCTGTATGAGATATTGAGAGGCAAGAGAACCTCTCAAAATGTT 2415
Qy 301 ATCTCAATATAAGGCGCTGACAGCTTTGACAGGCAAACTGGAACCTGAGACTCCACA 360
Db 2414 ATCTCAATATAAGGCGCTGACAGCTTTGACAGGCAAACTGGAACCTGAGACTCCACA 2355
Qy 361 ATGTTTCAGATCAAGGCAAGGCAATATCATCTGTTTCATTTATTAAGAGGCGCCAAAG 420
Db 2354 ATGTTTCAGATCAAGGCAAGGCAATATCATCTGTTTCATTTATTAAGAGGCGCCAAAG 2295
Qy 421 GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTTCTGCTAACTTCAGTCAAC 480
Db 2294 GACTAGTTTCCATGACCAAAATGAGTTCTGACCTATCAGTCTTCTGCTAACTTCAGTCAAC 2235
Qy 481 CTGAATTAAGAGTAAGTCTTAATAGAAAGAAATTTCTGGCATCATTAATTTGACCTGCT 540
Db 2234 CTGAATTAAGAGTAAGTCTTAATAGAAAGAAATTTCTGGCATCATTAATTTGACCTGCT 2175
Qy 541 CATCTATCAAGGTTTACCCAGAACCTAAGGAGATGATTTTTCAGCTAAACACTGAGAAAT 600
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Db 2174 CATCTATCAAGGTTACCCAGAACCTAAGGAGATGATATTTTTCAGCTAAACACATGAGAAAT 2115  
Qy 601 CAACCTACTAGTATGATACCTGTCATGAGAAATCTCAAAATTAATGTCAGACAGAACTGTACA 660  
Db 2114 CAACCTACTAGTATGATACCTGTCATGAGAAATCTCAAAATTAATGTCAGACAGAACTGTACA 2055  
Qy 661 ACCTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGACACAAATGTCAGCGTCTTTTGG 720  
Db 2054 ACCTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGACACAAATGTCAGCGTCTTTTGG 1995  
Qy 721 CCCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATATAGATGACAAAC 780  
Db 1994 CCCTGAAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATATAGATGACAAAC 1935  
Qy 781 CTAGGATTAAGACCTGTAACAGGCACTCTCTGATTTGGGCTGTACTTGTAAATGT 840  
Db 1934 CTAGGATTAAGACCTGTAACAGGCACTCTCTGATTTGGGCTGTACTTGTAAATGT 1875  
Qy 841 TGTGTTTTTTTGGGATGCTCTCTTTAAACACTAAGGAAAGGAGAGAGAGCAGC 900  
Db 1874 TGTGTTTTTTTGGGATGCTCTCTTTAAACACTAAGGAAAGGAGAGAGAGCAGC 1815  
Qy 901 CTGGCCCTCTCATGAATGTAAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960  
Db 1814 CTGGCCCTCTCATGAATGTAAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1755  
Qy 961 ACAGAGAGTACCTACCTGATGAGATCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020  
Db 1754 ACAGAGAGTACCTACCTGATGAGATCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1695  
Qy 1021 TGAAGAGAGCTCAGGGGACAAAAT 1046  
Db 1694 TGAAGAGAGCTCAGGGGACAAAAT 1669

RESULT 6

US-09-646-561-25  
; Sequence 25, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-ECT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 25  
; LENGTH: 2830  
; TYPE: DNA  
; ORGANISM: Felis catus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1179)..(1174)

US-09-646-561-25

Query Match 96.4%; Score 1041.2; DB 29; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GTTCTGTGTTCTCTGGGATGTCATCTGAGCTTATACATCTGGTCTCTGGGAGCTGCAGT 60  
Db 117 GTTCTGTGTTCTCTGGGATGTCATCTGAGCTTATACATCTGGTCTCTGGGAGCTGCAGT 176  
Qy 61 GCATGGGCAATTTGTCAGACGACTATGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 120  
Db 177 GCATGGGCAATTTGTCAGACGACTATGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 236

RESULT 7

US-09-646-561-27/c  
; Sequence 27, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.

Qy 121 TGCTCTCTGCTGTTTCTTCCATGAAGAGTCAAGCATATTTTCAACAGAGACTGGAGAACTGC 180  
Db 237 TGCTCTCTGCTGTTTCTTCCATGAAGAGTCAAGCATATTTTCAACAGAGACTGGAGAACTGC 296  
Qy 181 CATGCCAATTTTCAAACTCTCAAAACATTAAGCTGGATGAGTGTGATTTTGGCAGG 240  
Db 297 CATGCCAATTTTCAAACTCTCAAAACATTAAGCTGGATGAGTGTGATTTTGGCAGG 356  
Qy 241 ACCAGGATAGCTGGTCTCTGATGAGATTAATTCAGAGGCAAGAGAGACCTTCAAAATGTTTC 300  
Db 357 ACCAGGATAGCTGGTCTCTGATGAGATTAATTCAGAGGCAAGAGAGACCTTCAAAATGTTTC 416  
Qy 301 ATCTCAAAATATAAGGCGCTTACAGCTTTTGAACAGGCAAACTGGACCTTGAGACTCCACA 360  
Db 417 ATCTCAAAATATAAGGCGCTTACAGCTTTTGAACAGGCAAACTGGACCTTGAGACTCCACA 476  
Qy 361 ATGTTTCAGATCAGGACAGGCGCATATCACTGTTTTCATTCATTTAAGGGCCCAAG 420  
Db 477 ATGTTTCAGATCAGGACAGGCGCATATCACTGTTTTCATTTAAGGGCCCAAG 536  
Qy 421 GACTAGTTCCCATGCAACCAATTAAGTTCGACCTATCAGTCTTGTCTAACTTCAGTCAAC 480  
Db 537 GACTAGTTCCCATGCAACCAATTAAGTTCGACCTATCAGTCTTGTCTAACTTCAGTCAAC 596  
Qy 481 CTGAAATAACAGTAACTTCTTAATAGAACAGAAATTTCTGGCATCATATAATTTGACCTGCT 540  
Db 597 CTGAAATAACAGTAACTTCTTAATAGAACAGAAATTTCTGGCATCATATAATTTGACCTGCT 656  
Qy 541 CATCTATAAAGGTTTACCCAGACCTAAGGAGATGATTTTTCAGCTTAAACACTGAGAAAT 600  
Db 657 CATCTATAAAGGTTTACCCAGACCTAAGGAGATGATTTTTCAGCTTAAACACTGAGAAAT 716  
Qy 601 CAACCTACTAGTATGATACCTGTCATGAAGAAATCTCAAAATAATGTCAGAGAACTGTACA 660  
Db 717 CAACCTACTAGTATGATACCTGTCATGAAGAAATCTCAAAATAATGTCAGAGAACTGTACA 776  
Qy 661 ACCTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGAGACACAAATGTCAGCGTCTTTTGTG 720  
Db 777 ACCTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAGAGACACAAATGTCAGCGTCTTTTGTG 836  
Qy 721 CCCTGAAACTGGAGACACTGAGAGATGCTCTCTCCCTACCTTTCATATAGATGTCACAAAC 780  
Db 837 CCCTGAAACTGGAGACACTGAGAGATGCTCTCTCCCTACCTTTCATATAGATGTCACAAAC 896  
Qy 781 CTAGGATTAAGACCTTCAAGGAG 840  
Db 897 CTAGGATTAAGACCTTCAAGGAG 956  
Qy 841 TGTGTTTTTTTGGGATGCTGCTCTTTAAACACTAAGGAAAGGAGAGAGAGAGAGAGAGAGAG 900  
Db 957 TGTGTTTTTTTGGGATGCTGCTCTTTAAACACTAAGGAAAGGAGAGAGAGAGAGAGAGAGAG 1016  
Qy 901 CTGGCCCTCTCATGAATGTAAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960  
Db 1017 CTGGCCCTCTCATGAATGTAAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1076  
Qy 961 ACAGAGAGTACCATACCTGATGAGAGATCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020  
Db 1077 ACAGAGAGTACCATACCTGATGAGAGATCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1136  
Qy 1021 TGAAGAGAGCTCAGGGGACAAAAT 1046  
Db 1137 TGAAGAGAGCTCAGGGGACAAAAT 1162

; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-CI-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 2830  
; TYPE: DNA  
; ORGANISM: Felis catus  
; US-09-646-561-27

Query Match 96.4%; Score 1041.2; DB 29; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	1	GTCTCTGTGTTCTCTGGGATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT	60
DB	2714	GTCTCTGTGTTCTCTGGGATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT	2655
QY	61	GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCAACATCTCTCTCTGATGGCCCTCC	120
DB	2654	GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCAACATCTCTCTCTGATGGCCCTCC	2595
QY	121	TGCTCTCTGTGTTCTCTGGGATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT	180
DB	2594	TGCTCTCTGTGTTCTCTGGGATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT	2535
QY	181	CATGCCATTTTACAACTCTCAAACTCTCAAACTCTCAAACTCTCAAACTCTCAAACTCTCA	240
DB	2534	CATGCCATTTTACAACTCTCAAACTCTCAAACTCTCAAACTCTCAAACTCTCAAACTCTCA	2475
QY	241	ACGAGTAAGCTGTTCTGTATGATATTCAGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA	300
DB	2474	ACGAGTAAGCTGTTCTGTATGATATTCAGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA	2415
QY	301	ATCTCAATATTAAGGCGCGTACAGCTTTGACAGGCAAGGCAAGGCAAGGCAAGGCAAGG	360
DB	2414	ATCTCAATATTAAGGCGCGTACAGCTTTGACAGGCAAGGCAAGGCAAGGCAAGGCAAGG	2355
QY	361	ATGTTTCAGATCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAG	420
DB	2354	ATGTTTCAGATCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAG	2295
QY	421	GACTAGTTCCTCATGCCCAATGTTCTGACCTATCAGTCTGCTGCTGCTGCTGCTGCTGCT	480
DB	2294	GACTAGTTCCTCATGCCCAATGTTCTGACCTATCAGTCTGCTGCTGCTGCTGCTGCTGCT	2235
QY	481	CTGAATTAACAGTAAGTCTTAATAGACAGAAATTTCTGGCATCATAAATTTGACCTGCT	540
DB	2234	CTGAATTAACAGTAAGTCTTAATAGACAGAAATTTCTGGCATCATAAATTTGACCTGCT	2175
QY	541	CATCTATAAGGTTACCCAGAACCTAAGGAGATGTAATTTTCAAGTAAACACTGAGAAAT	600
DB	2174	CATCTATAAGGTTACCCAGAACCTAAGGAGATGTAATTTTCAAGTAAACACTGAGAAAT	2115
QY	601	CACTACTAGTATGATGCTGTCATGAGAAATCTCAAAATTAATGTCAGAACTGTACA	660
DB	2114	CACTACTAGTATGATGCTGTCATGAGAAATCTCAAAATTAATGTCAGAACTGTACA	2055
QY	661	ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAGGACACAAATGTGAGCGCTTTTGTG	720
DB	2054	ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAGGACACAAATGTGAGCGCTTTTGTG	1995
QY	721	CCCTGAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGTGCACAC	780
DB	1994	CCCTGAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGTGCACAC	1935

781 CTAAGGATAAAGACCTCTGAACAAGGCCACTTCTCTGGATTGGGCTGTACTTGTAAATGT 840  
1934 CTAAGGATAAAGACCTCTGAACAAGGCCACTTCTCTGGATTGGGCTGTACTTGTAAATGT 1875

841 TTGTTGTTTTTTTGGGATGCTCTCTTTAAACACTAAGGAAAAGGAGAGAGAGCAGC 900  
1874 TTGTTGTTTTTTTGGGATGCTCTCTTTAAACACTAAGGAAAAGGAGAGAGAGCAGC 1815

901 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGC 960  
1814 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGC 1755

961 ACAGAAAGATGATACATACACCTGAGAGATCTGATGAAGGCCAGTGTGTTAAACATTT 1020  
1754 ACAGAAAGATGATACATACACCTGAGAGATCTGATGAAGGCCAGTGTGTTAAACATTT 1695

1021 TGAAGACAGCTCTAGGGGACAAAAT 1046  
1694 TGAAGACAGCTCTAGGGGACAAAAT 1669

RESULT 8  
US-10-790-396-25  
; Sequence 25, Application US/10790396  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-CI-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; PRIOR FILING DATE: 2004-03-01  
; PRIOR APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: 60/078,765  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR APPLICATION NUMBER: 09/062,597  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 25  
; LENGTH: 2830  
; TYPE: DNA  
; ORGANISM: Felis catus  
; NAME/KEY: CDS  
; LOCATION: (179)...(1174)  
; US-10-790-396-25

Query Match 96.4%; Score 1041.2; DB 62; Length 2830;  
Best Local Similarity 99.7%; Pred. No. 5.4e-287;  
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	1	GTCTCTGTGTTCTCTGGGATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT	60
DB	117	GTCTCTGTGTTCTCTGGGATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT	176
QY	61	GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCAACATCTCTCTGATGGCCCTCC	120
DB	177	GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCAACATCTCTCTGATGGCCCTCC	236
QY	121	TGCTCTCTGTGTTCTCTGGGATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT	180
DB	237	TGCTCTCTGTGTTCTCTGGGATGTCACCTGAGCTTATACATCTGCTCTCTGGAGCTGCAGT	296
QY	181	CATGCCATTTTACAACTCTCAAACTCTCAAACTCTCAAACTCTCAAACTCTCAAACTCTCA	240
DB	297	CATGCCATTTTACAACTCTCAAACTCTCAAACTCTCAAACTCTCAAACTCTCAAACTCTCA	356
QY	241	ACGAGTAAGCTGTTCTGTATGATATTCAGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA	300
DB	357	ACGAGTAAGCTGTTCTGTATGATATTCAGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA	416







Qy	303	CTCAAAATATAAGGGCCGTTACAAAGCTTTGACAAGGACAACCTGGAGCCCTGAGACTCCACAAT	362
Db	241	CTCAAAATATAAGGGCCGTTACAAAGCTTTGACAAGGACAACCTGGAGCCCTGAGACTCCACAAT	300
Qy	363	GTTCAGATCAAGGACAAAGGGCACATATACATCTGTTTCAATTTATTAAGGGGCCAAAGGA	422
Db	301	GTTCAGATCAAGGACAAAGGGCACATATACATCTGTTTCAATTTATTAAGGGGCCAAAGGA	360
Qy	423	CTAGTTCCCATGCAACAAATAGATTCTTGACCTATCAGTGTCTGTAACTTCAGTCAACCT	482
Db	361	CTAGTTCCCATGCAACAAATAGATTCTTGACCTATCAGTGTCTGTAACTTCAGTCAACCT	420
Qy	483	GAATAACAGTAGTAACCTCTTAATGAAACAGAAATCTTGGCATCATATAATTCAGCTGTCTCA	542
Db	421	GAATAACAGTAGTAACCTCTTAATGAAACAGAAATCTTGGCATCATATAATTCAGCTGTCTCA	480
Qy	543	TCATATCAAGGTTACCCAGAACCTTAAGSAGATGTATTTTCAGCTTAACACACTGAGAAATTC	602
Db	481	TCATATCAAGGTTACCCAGAACCTTAAGSAGATGTATTTTCAGCTTAACACACTGAGAAATTC	540
Qy	603	ACTACTAAGTATGATATCTGTCTGAAGAAATCTCAAAATAATGTGCAGAACTGTACAAAC	662
Db	541	ACTACTAAGTATGATATCTGTCTGAAGAAATCTCAAAATAATGTGCAGAACTGTACAAAC	600
Qy	663	GTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGGAAGCACACAATGTGAGCGTCTTTTGTGCC	722
Db	601	GTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGGAAGCACACAATGTGAGCGTCTTTTGTGCC	660
Qy	723	CTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGCACAACCT	782
Db	661	CTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGCACAACCT	720
Qy	783	AAGGATAAAGACCCCTGAACAGGCCATCTTCTCTGGATTTGGCGCTGTACTTGTAAATGTTT	842
Db	721	AAGGATAAAGACCCCTGAACAGGCCATCTTCTCTGGATTTGGCGCTGTACTTGTAAATGTTT	780
Qy	843	GTGTGTTTTTGTGGGATGGTGTCTCTTTTAAACAACCTAAGGAAAGGAAGAAGACGACCT	902
Db	781	GTGTGTTTTTGTGGGATGGTGTCTCTTTTAAACAACCTAAGGAAAGGAAGAAGACGACCT	840
Qy	903	GGGCCCTCTCATGAATGTGAACAACATCAAAAGGGAGAAAGAGAGGCAACACAGACCAAC	962
Db	841	GGGCCCTCTCATGAATGTGAACAACATCAAAAGGGAGAAAGAGAGGCAACACAGACCAAC	900
Qy	963	GAAGAAGTACCAATACCAAGTACTCTGAGAGATCTGTATGAAGCCCAAGTGTGTTTAA	1022
Db	901	GAAGAAGTACCAATACCAAGTACTCTGAGAGATCTGTATGAAGCCCAAGTGTGTTTAA	960
Qy	1023	AAGACAGCCCTCAGGGGACAAAAAT	1046
Db	961	AAGAAGCCCTCAGGCGCAAAAAGT	984

**RESULT 13**

US-09-646-561-29/c  
 , Sequence 29, Application US/09646561  
 , GENERAL INFORMATION:  
 , APPLICANT: Sim, Gek-Kea  
 , APPLICANT: Yang, Shumin  
 , APPLICANT: Sellins, Karen G.  
 , TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
 , TITLE OF INVENTION: ACID MOLECULES, AND USRS THEREOF  
 , FILE REFERENCE: IM-1-C1-PCT  
 , CURRENT APPLICATION NUMBER: US/09/646,561  
 , CURRENT FILING DATE: 2000-09-19  
 , PRIOR APPLICATION NUMBER: 60/078,765  
 , PRIOR FILING DATE: 1998-03-19  
 , PRIOR APPLICATION NUMBER: 09/062,597  
 , PRIOR FILING DATE: 1998-04-17  
 , NUMBER OF SEQ ID NOS: 65  
 , SOFTWARE: PatentIn Ver. 2.0  
 , SEQ ID NO 29  
 , LENGTH: 996

TYPE: DNA  
ORGANISM: Felis catus  
US-09-646-561-29

Query Match 90.7%; Score 979.2; DB 29; Length 996;  
Best Local Similarity 99.7%; Pred. No. 2e-269;  
Matches 981; Conservative 0; Mismatches 3; Indels 0;

QY	63	ATGGCATT	TGTGACGACCACTATGGAGCTGAGTCA	CAC	TCTCTCTGTGATG	CCCTCTCG	122
DB	996	ATGGCATT	TGTGACGACCACTATGGAGCTGAGTCA	CAC	TCTCTCTGTGATG	CCCTCTCG	937
QY	123	CTCTCTGTG	TGTTCTTCCATGAAAGAGTCAAGCA	TATTTCAA	CAGAAGCTGGAGAA	CTGCCA	182
DB	936	CTCTCTGTG	TGTTCTTCCATGAAAGAGTCAAGCA	TATTTCAA	CAGAAGCTGGAGAA	CTGCCA	877
QY	183	TGCCAATTT	TACAAACTCTCAAAACATAGAGCTGGATG	AGCTGCTAGTAT	TTTTGGCAGAC	242	
DB	876	TGCCAATTT	TACAAACTCTCAAAACATAGAGCTGGATG	AGCTGCTAGTAT	TTTTGGCAGAC	817	
QY	243	CAGGATAAG	CTGGTTCGTATGATATATCAGAGGCAAA	GAGAACCCCTCAAAAT	TGTTTCAT	302	
DB	816	CAGGATAAG	CTGGTTCGTATGATATATCAGAGGCAAA	GAGAACCCCTCAAAAT	TGTTTCAT	757	
QY	303	CTCAAAAT	ATAAAGGCGCTGACAGCTTTGACAAGGAC	CAACTGAGACCTCGAGACTCCACAA	AT	362	
DB	756	CTCAAAAT	ATAAAGGCGCTGACAGCTTTGACAAGGAC	CAACTGAGACCTCGAGACTCCACAA	AT	697	
QY	363	GTTCAGAT	CAAGGACAAGGGCAATATCACTGT	TTTCATTTATAAAGGGCCCAAGGA	422		
DB	636	GTTCAGAT	CAAGGACAAGGGCAATATCACTGT	TTTCATTTATAAAGGGCCCAAGGA	637		
QY	423	CTAGTTCC	ATGCAACCAATAGCTTCTGCACTCAT	CAGTCTTGCTTAACTTCAGTCAA	CGCT	482	
DB	636	CTAGTTCC	ATGCAACCAATAGCTTCTGCACTCAT	CAGTCTTGCTTAACTTCAGTCAA	CGCT	577	
QY	483	GAATAAC	AGTATGATCTTAATAGAACAGAAATAT	CTGGCATCATTAATTTGACCTGCTCA	542		
DB	576	GAATAAC	AGTATGATCTTAATAGAACAGAAATAT	CTGGCATCATTAATTTGACCTGCTCA	517		
QY	543	TCTATACA	AGGTTACCCAGAACCTAAGGAGATG	TATTTTCAGCTTAACCACTGAGAAT	TCA	602	
DB	516	TCTATACA	AGGTTACCCAGAACCTAAGGAGATG	TATTTTCAGCTTAACCACTGAGAAT	TCA	457	
QY	603	ACTACTA	AGTATGATCTGTGATGAAGAAATCT	CAAAATAATGTGACAGAACTGTGACAC	662		
DB	436	ACTACTA	AGTATGATCTGTGATGAAGAAATCT	CAAAATAATGTGACAGAACTGTGACAC	397		
QY	663	GTTCATAC	AGCTTGCTTTTTCAGTCCCTGAAGACACA	CAATGTGAGGCTCTTTTGTGCC	722		
DB	336	GTTCATAC	AGCTTGCTTTTTCAGTCCCTGAAGACACA	CAATGTGAGGCTCTTTTGTGCC	337		
QY	723	CTGAAA	CTGGAGACACTGGAGATGCTGCTCT	CCCTACCTTTCAATATAGATGCA	CAACCT	782	
DB	336	CTGAAA	CTGGAGACACTGGAGATGCTGCTCT	CCCTACCTTTCAATATAGATGCA	CAACCT	277	
QY	782	AAGGATAA	AGACCTGGAACAAGGCCACTTCTCT	GGATTGGGGCTGTACTTGTAA	TGTT	842	
DB	216	AAGGATAA	AGACCTGGAACAAGGCCACTTCTCT	GGATTGGGGCTGTACTTGTAA	TGTT	217	
QY	843	GTGTGTTT	TGTGGGATG	TGTCTTTAAAA	CACCTAAGGAAAGGAAGAGCAG	CGCT	902
DB	216	GTGTGTTT	TGTGGGATG	TGTCTTTAAAA	CACCTAAGGAAAGGAAGAGCAG	CGCT	157
QY	903	GGCCCTCT	CACTGAATGTGAAACCATCAAAAGGGAG	AGAAAGAGAGCAAAACAGACCAAC	962		
DB	156	GGCCCTCT	CACTGAATGTGAAACCATCAAAAGGGAG	AGAAAGAGAGCAAAACAGACCAAC	97		
QY	963	GAAGAAG	TACATACCACTGACTGAGAGATCT	GATGAAGCCGAGTGTGTTAA	CATT	1022	
DB	96	GAAGAAG	TACATACCACTGACTGAGAGATCT	GATGAAGCCGAGTGTGTTAA	CATT	37	
QY	1023	AAGACG	CGCTCAGGGGACAAAAAT	1046			



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Db      36  AAGACAGCCTCAGGCGACAAAAGT 13
|||||
RESULT 14
US-10-790-396-28
; Sequence 28, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE REFERENCE: IN-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Fells catus
US-10-790-396-28

Query Match      90.7%; Score 979.2; DB 62; Length 996;
Best Local Similarity 99.7%; Pred. No. 2e-269;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      63  ATGGCCATTTGTGACAGCACTATGGGACTGATGACATCTCTCTTGTGATGGCCCTCTCTG 122
DB      1   ATGGCCATTTGTGACAGCACTATGGGACTGATGACATCTCTCTTGTGATGGCCCTCTCTG 60
QY      123 CTCTCTGGTGTCTTCCATGAGAGTCAAGCATATTTCAACAGACTGAGACTGCGCA 182
DB      61  CTCTCTGGTGTCTTCCATGAGAGTCAAGCATATTTCAACAGACTGAGACTGCGCA 120
QY      183 TGCATTTTCAAACTCTCAAACTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTTCA 242
DB      121 TGCCATTTTCAAACTCTCAAACTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTTCA 180
QY      243 CAGGATAAGCTGGTCTCTGATGATATTCAGAGCAAGAGAACCTCAAAATGTTTCA 302
DB      181 CAGGATAAGCTGGTCTCTGATGATATTCAGAGCAAGAGAACCTCAAAATGTTTCA 240
QY      303 CTCAAATATAGGCGGTACAGCTTTGACAGCACTGGGACCTGAGACTCCACAT 362
DB      241 CTCAAATATAGGCGGTACAGCTTTGACAGCACTGGGACCTGAGACTCCACAT 300
QY      363 GTTCAGATCAAGGACCAAGGCAATATCACTGTTTCATTTATTAAGGCGCCCAAGGA 422
DB      301 GTTCAGATCAAGGACCAAGGCAATATCACTGTTTCATTTATTAAGGCGCCCAAGGA 360
QY      423 CTAGTTCCCAATGACCAAAATGAGTTCTGACCTATCAGTGCTTGCTTAACCTCAACCT 482
DB      361 CTAGTTCCCAATGACCAAAATGAGTTCTGACCTATCAGTGCTTGCTTAACCTCAACCT 420
QY      483 GAATATACAGTAACTTCTTAATAGACAGAAATTTCCGATCATTAATTTGACCTGCTCA 542
DB      421 GAATATACAGTAACTTCTTAATAGACAGAAATTTCCGATCATTAATTTGACCTGCTCA 480
QY      543 TCTATACAGGTTTACCAGAACCTTAAGGAGATGTTATTTTCHAGCTAAACACTGAGAAATCA 602
DB      481 TCTATACAGGTTTACCAGAACCTTAAGGAGATGTTATTTTCHAGCTAAACACTGAGAAATCA 540
QY      603 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAATATATGTCAGAGAACTGTACAC 662
DB      541 ACTACTAAGTATGATATCTGTCATGAGAAATCTCAAAATATATGTCAGAGAACTGTACAC 600

US-10-790-396-29/c
; Sequence 29, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE REFERENCE: IN-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Fells catus
US-10-790-396-29

Query Match      90.7%; Score 979.2; DB 62; Length 996;
Best Local Similarity 99.7%; Pred. No. 2e-269;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      63  ATGGCCATTTGTGACAGCACTATGGGACTGATGACATCTCTCTTGTGATGGCCCTCTCTG 122
DB      996  ATGGCCATTTGTGACAGCACTATGGGACTGATGACATCTCTCTTGTGATGGCCCTCTCTG 937
QY      123 CTCTCTGGTGTCTTCCATGAGAGTCAAGCATATTTCAACAGACTGAGACTGCGCA 182
DB      936  CTCTCTGGTGTCTTCCATGAGAGTCAAGCATATTTCAACAGACTGAGACTGCGCA 877
QY      183 TGCCATTTTCAAACTCTCAAACTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTTCA 242
DB      876  TGCCATTTTCAAACTCTCAAACTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTTCA 817
QY      243 CAGGATAAGCTGGTCTCTGATGATATTCAGAGCAAGAGAACCTCAAAATGTTTCA 302
DB      961  CAGGATAAGCTGGTCTCTGATGATATTCAGAGCAAGAGAACCTCAAAATGTTTCA 960
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[illegible]

Search completed: August 20, 2005, 11:42:15  
Job time : 18716 secs

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OM nucleic - nucleic search, using sw model

Run on: August 20, 2005, 01:00:27 ; Search time 1823 Seconds  
(without alignments)  
7792.350 Million cell updates/sec

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Perfect score: 1080  
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Gapop 10.0, Gapext 1.0

Searched: 23769627 seqs, 657676716 residues

Total number of hits satisfying chosen parameters: 4753254

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 21: /cgn2\_6/ptodata/1/pna/pna/PCT\_NEW\_COMB.seq.\*
- 22: /cgn2\_6/ptodata/1/pna/pna/PCT\_NEW\_COMB.seq.\*
- 23: /cgn2\_6/ptodata/1/pna/pna/PCT\_NEW\_COMB.seq.\*
- 24: /cgn2\_6/ptodata/1/pna/pna/PCT\_NEW\_COMB.seq.\*
- 25: /cgn2\_6/ptodata/1/pna/pna/PCT\_NEW\_COMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	772.8	71.6	1897	1	PCT-US05-00517-3532
2	612.4	56.7	994	23	US-11-170-797-13
3	582.2	53.9	1798	1	PCT-US05-00517-3531
4	580.6	53.8	1424	20	US-11-027-053-3
5	580.6	53.8	1600	14	US-10-940-774A-5261
6	580.6	53.8	1926	9	US-10-302-689A-14809
7	580.6	53.8	2717	23	US-11-041-164A-33
8	580.6	53.8	2794	1	PCT-US05-18533-16

9	580.6	53.8	2794	1	PCT-US05-18790-54
10	580.6	53.8	2794	23	US-11-137-807-16
11	533.2	49.4	1830	9	US-10-302-689A-57885
12	533.2	49.4	2781	1	PCT-US05-18790-56
13	528.2	48.9	972	23	US-11-170-797-2
14	429.6	39.8	1056	12	US-10-960-855-17
15	351.4	32.5	754	25	US-60-680-544-17478
16	351.4	32.5	754	25	US-60-680-473-17478
17	329.6	30.5	930	23	US-11-170-797-3
18	295.2	27.3	942	23	US-11-136-527-3551
19	292	27.0	576	1	PCT-US05-00517-598
20	234.6	21.7	46118	14	US-10-940-774A-17003
21	160	14.8	1001	10	US-10-301-480C-317760
22	160	14.8	1001	16	US-10-301-480A-317760
23	160	14.8	1001	18	US-10-301-480B-317760
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27	41.2	3.8	46	23	US-11-041-164A-9
28	41	3.8	662	8	US-09-474-435A-141149
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31	39.8	3.7	563	7	US-09-925-065A-416395
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44	38.2	3.5	353	20	US-11-026-159-194
45	38	3.5	566	10	US-10-301-480C-439615

ALIGNMENTS

RESULT 1

PCT-US05-00517-3532  
; Sequence 3532, Application PC/TUS0500517  
; GENERAL INFORMATION:  
; APPLICANT: THE OHIO STATE UNIVERSITY  
; TITLE OF INVENTION: METHODS OF USING DATABASES TO CREATE GENE-EXPRESSION MICROARRAYS  
; TITLE OF INVENTION: MICROARRAYS CREATED THEREBY, AND USES OF THE MICROARRAYS  
; FILE REFERENCE: 18525-04130  
; CURRENT APPLICATION NUMBER: PCT/US05/00517  
; CURRENT FILING DATE: 2005-01-07  
; PRIOR APPLICATION NUMBER: 60/535,111  
; PRIOR FILING DATE: 2004-01-08  
; NUMBER OF SEQ ID NOS: 3859  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 3532  
; LENGTH: 1897  
; TYPE: DNA  
; ORGANISM: Canis familiaris  
PCT-US05-00517-3532

Query Match 71.6%; Score 772.8; DB 1; Length 1897;  
Best Local Similarity 88.8%; Pred. No. 6.7e-200;  
Matches 860; Conservative 0; Mismatches 102; Indels 6; Gaps 2;

Qy	79	GCACATATGGAGCTGAGTCACACTCTCTGTGATGCGCCCTCTGCTCTCTGCTGCTGCTT	138
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Qy	139	CCATGAGAGCTCAAGCATATTTTCAACAGACTGGAGACTGCATGCACTTTTCAAACT	198
Db	79	CCATGAGAGCTCAAGCATATTTTCAACAGACTGGAGACTGCATGCACTTTTCAAACT	138









1 SEQ ID NO 33  
2 LENGTH: 2717  
3 TYPE: DNA  
4 ORGANISM: Homo sapiens  
5 US-11-041-164A-33

Query Match 53.8%; Score 580.6; DB 23; Length 2717;  
Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

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QY 1 GTTTCGTGTTCTCGGAATCTCACTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
DB 62 GCTTCGTGTTCTCGGAATCTCGTGTCTTATGCACTCTGGTCTCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCCATTCTGTACAGCAGCTATGGAGCTGAGTCACACTCTCTTGTGTAGTGGCC 117
DB 122 AGTGGACAGGCAATTTGTACAGCACTATGGAGCTGAGTAACTCTCTTGTGTAGTGGCT 181
QY 118 TCCGTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
DB 182 TCCGTCTCTGTGTTCTCTCTGAAGATTCAAGCTTATTTCAATGAGACTGGAGACC 241
QY 178 TGCCATGCCATTTTACAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTGGC 237
DB 242 TGCCATGCCATTTTGAACACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTGGC 301
QY 478 AACCTGAAATACAGTAACCTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTTACCT 537
DB 542 AACCTGAAATAGTACCAATTTCTAATATACAGAAAT---TGTGTACATAAATTTTACCT 598
QY 538 GCTCATCTATACAGGTTACCCAGAACCTTAAGGAGATGTATTTTCAGCTAAACACTGAGA 597
DB 599 GCTCATCTATACAGGTTACCCAGAACCTTAAGGAGATGTATTTTCAGCTAAACACTGAGA 658
QY 598 ATTCAACTACTAAGTATGATCTGTGATGAAGAAATCTCAAAATTAATGTGACAGAACTGT 657
DB 659 ATTCAACTACTAAGTATGATGTATGATGAAGAAATCTCAAAATTAATGTGACAGAACTGT 718
QY 658 ACAACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGGAAG---CACAAATGTGAGCGTCT 714
DB 719 ACAGGTTTCCATCAGCTTGTCTGTTTCAATCCCTGATGTTTACGAGCAATATGACCATCT 778
QY 715 TTTGTGCTTGAACCTGGAGACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATG 774
DB 779 TCTGTATTTGGAACCTGACA---AGACGGGCTTTTATCTTCACCTTTTCTCTATAG--- 832
QY 775 CACAACTAAGGATAAGGACCCCTGAACCAAGGCCACTTCTCTGATTTGGCGCTGTACTTG 834
DB 833 ---AGCTTGAAGACCTCAGCCTCCCCAGACCACTTCTCTGGATTTACAGCTGTACTTC 889
QY 835 TAATGTTTGTGTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAGAGAGA 894
DB 890 CAACAGTATATATGTGTATGTTTCTGTCTAATTTCTATGGAATGGAAGAGAGAGA 949
QY 895 AGCAGCTGCGCCCTCTCATGTAATGTGAAACCATCAAAAGGGAGAGAAAGAGAGCAAC 954
DB 950 AGCGGCTCGCAACTCTTATTAATGTGGAAACCAACAAATGGAGAGGAGAGAGTGAAC 1009
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QY 1012 TTAACATTTTGAAGACAGCTTCAGGGGACAAAATCA 1048
DB 1070 TTAAGTTTGAAGACATCTTCTGCGCAAAAGTGA 1106
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## RESULT 8

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PCT-US05-18533-16
GENERAL INFORMATION:
APPLICANT: The Trustees of the University of Pennsylvania
APPLICANT: Riley, James
APPLICANT: June, Carl
APPLICANT: Vonderheide, Robert
APPLICANT: Aquil, Nicole
APPLICANT: Suhoski, Megan
FILE REFERENCE: 053893-5054PCI
TITLE OF INVENTION: NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR
CURRENT APPLICATION NUMBER: PCT/US05/18533
CURRENT FILING DATE: 2005-06-03
PRIOR APPLICATION NUMBER: US 60/575,712
PRIOR FILING DATE: 2004-05-27
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn version 3.3
SEQ ID NO 16
LENGTH: 2794
TYPE: DNA
ORGANISM: Homo sapiens
PCT-US05-18533-16
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Query Match 53.8%; Score 580.6; DB 1; Length 2794;  
Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

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QY 1 GTTTCGTGTTCTCGGAATCTCACTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
DB 62 GCTTCGTGTTCTCGGAATCTCGTGTCTTATGCACTCTGGTCTCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCCATTCTGTACAGCAGCTATGGAGCTGAGTCACACTCTCTTGTGTAGTGGCC 117
DB 122 AGTGGACAGGCAATTTGTGACAGCACTATGGAGCTGAGTAACTCTCTTGTGTAGTGGCT 181
QY 118 TCCGTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
DB 192 TCCGTCTCTGTGTTCTCTCTGGAAGATTCAAGCTTATTTCAATGAGACTGCAGACC 241
QY 178 TGCCATGCCATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTGGC 237
DB 242 TGCCATGCCATTTTGAACACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTGGC 301
QY 238 AGGACCAAGGATAAGCTGTGTTCTGTATGAGATATTTCAAGGCAAAAGAGAACTTCAAGT 297
DB 302 AGGACCAAGGAAAACTTGGTCTTGAATGAGGTATATCTAGGCAAAAGAGAAATTTGACAGT 361
QY 298 TTTATCTCAATATAGGCGCTGTACAGCTTTTGAACAAGCAAACTGGACCTGAGACTCC 357
DB 362 TTTATCTCAAGTATATGGGCGCCGACAGTTTGTATGGAAGCTTGGAGCTTGGAGACTTC 421
QY 358 ACAATGTTTCAGATCAAGGCAAGGCAATATCTACTGTTTCATTCATTTATAAAGGGGCCA 417
DB 422 ACAATCTTCAGATCAAGGCAAGGCGCTTGTATCAATGTATCATTCATCACAAAAAGGCCA 481
QY 418 AAGACTAGTTCCTCATGACCAAAATGAGTTCCTGAGCTATCAAGTCTGCTGTAACCTTCAGTC 477
DB 482 CAGGATGATTTGCAATCCACAGATGAAATTTCTGAGCTGTGAGTCTGCTGCTTGAATTCAGTC 541
QY 478 AACCTGAAATACAGTAACTCTTCAATAGAACAGAAATTTCTGGCATCATTAATTTGACCT 537
DB 542 AACCTGAAATAGTACCAATTTTCAATATTAACAGAAAT---TGTGTACATTAATTTGACCT 598
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QY 538 GCTCATCTATACAGGTTACCCAGAACCTAAGAGATGATTTTTCAGCTTAACACCTGAGA 597  
 DB 599 GCTCATCTATACAGGTTACCCAGAACCTAAGAGATGATGTTTTCAGCTTAACACCTGAGA 658  
 QY 598 ATTCAACTACTAAGTATGATCTGTCATGAGAAATCTCAAAATTAATGTCAGCAAGACTGT 657  
 DB 659 ATTCAACTATCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 718  
 QY 658 ACAAGCTTTCTATCAGCTGCTTTTTCAGTCCCTGGAAG---CACACATGTCAGGCTGT 714  
 DB 719 ACGAGCTTTCTATCAGCTGCTTTTTCAGTCCCTGGAAG---CACACATGTCAGGCTGT 778  
 QY 715 TTTGTCCTGAACTGGAGACACTGGAGATGCTGCTCTCCTACCTTTTCAATATAGATG 774  
 DB 779 TCTGATTTCTGGAACCTGACA---AGAGCGGCTTTTATCTTTCACCTTTCTCTATAG--- 832  
 QY 775 CACACCTTAAGGTAAGACCTGGAAGGCTTCTTCTGAGTGGCTGCTGCTGCTGCTGCTGCT 834  
 DB 833 ---AGCTTGAGGACCTGAGCTTCTTCTGAGTGGCTTCTTCTGAGTGGCTGCTGCTGCT 889  
 QY 835 TAATGTTGTTGTTTGTGGAATGCTGCTTCTTAAACCTAAGGAAAGGAAAGAA 894  
 DB 890 CAACAGTTATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 949  
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 QY 1012 TTAACATTTTGAAGACAGCTTACCTGAGAGATCTGATGAGAGAGAGAGAGAGAGAG 1048  
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RESULT 9  
 PCT-US05-18790-54  
 ; Sequence 54, Application PC/TUS0518790  
 ; GENERAL INFORMATION:  
 ; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
 ; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
 ; FILE OF INVENTION: BY MODULATION OF TNP-ALPHA ACTIVITY  
 ; FILE REFERENCES: HUI-0559C  
 ; CURRENT APPLICATION NUMBER: PCT/US05/18790  
 ; CURRENT FILING DATE: 2005-06-06  
 ; PRIOR FILING DATE: 2004-05-28  
 ; NUMBER OF SEQ ID NOS: 99  
 ; SOFTWARE: PatentIn 3.3  
 ; SEQ ID NO 54  
 ; LENGTH: 2794  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 PCT-US05-18790-54

Query Match 53.8%; Score 580.6; DB 1; Length 2794;  
 Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
 Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;  
 QY 1 GTTCTGCTGCTCTCGGAAATGCTACCTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57  
 DB 62 GCTTCTGCTGCTCTCGGAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 121  
 QY 58 AGTGGAGGCGCATTTGTCAGCAGCTATGGGAGTGTGTCACATCTCTTGTGATGGGCC 117  
 DB 122 AGTGGAGGCGCATTTGTCAGCAGCTATGGGAGTGTGTCACATCTCTTGTGATGGGCC 181  
 QY 118 TCCTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 177  
 DB 182 TCCTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 241

QY 178 TGCCATGCCATTTTACAACTCTCAAAACATAGGCTGGATGAGCTGCTGATGATTTTGGC 237  
 DB 242 TGCCATGCCATTTTACAACTCTCAAAACATAGGCTGGATGAGCTGCTGATGATTTTGGC 301  
 QY 238 AGGACCAAGGATAAGCTGCTTCTGATGAGATATTCAGAGGCAAAAGAGAACTCCCTCAAAATG 297  
 DB 302 AGGACCAAGGATAAGCTGCTTCTGATGAGATATTCAGAGGCAAAAGAGAAATTTGACAGTG 361  
 QY 298 TTCACTCAAAATATAGGCGCGGTACAGCTTTGACAGGACAACTGAGACCTGAGACTCC 357  
 DB 362 TTCACTCAAAATATAGGCGCGGTACAGCTTTGATTCGAGACAGTTGGACCTCGAGACTTC 421  
 QY 358 ACAATGTTGAGATCAAGGCAAGGCGCACATATCACTGTTTCAATTCATTTATAAGAGGGCCA 417  
 DB 422 ACAATGTTGAGATCAAGGCAAGGCGCTTGTATCAATGATATCATCATCACAAAAGGCCA 481  
 QY 418 AAGGACTAGTTTCCCATGCAACCAATGAGTTTCTGACCTATGAGTCTGCTTAACCTGAGTC 477  
 DB 482 CAGGAATGATTCGATCCACCCAGATGAATTTCTGAACCTGCTGAGTCTGCTTAACCTGAGTC 541  
 QY 478 AACCTGAAATTAACAGTAACCTTCTTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 537  
 DB 542 AACCTGAAATTAACAGTAACCTTCTTAATTAACAGAAAT---TGTGTACATAAATTTGACCT 598  
 QY 538 GCTCATCTATACAGGCTTACCCAGAACCTTAAGGAGATGATTTTTCAGCTTAACACCTGAGA 597  
 DB 599 GCTCATCTATACAGGCTTACCCAGAACCTTAAGGAGATGATTTTTCAGCTTAACACCTGAGA 658  
 QY 598 ATTCAACTACTAAGTATGATCTGTCATGAGAAATCTCAAAATTAATGTCAGCAAGACTGT 657  
 DB 659 ATTCAACTACTAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 718  
 QY 658 ACAAGCTTTCTATCAGCTGCTTTTTCAGTCCCTGGAAG---CACACATGTCAGGCTGT 714  
 DB 719 ACGAGCTTTCTATCAGCTGCTTTTTCAGTCCCTGGAAG---CACACATGTCAGGCTGT 778  
 QY 715 TTTGTCCTGAACTGGAGACACTGGAGATGCTGCTCTCCTACCTTTCAATATAGATG 774  
 DB 779 TCTGATTTCTGGAACCTGACA---AGAGCGGCTTTTATCTTTCACCTTTCTCTATAG--- 832  
 QY 775 CACACCTTAAGGTAAGACCTGGAAGGCTTCTTCTGAGTGGCTGCTGCTGCTGCTGCTGCT 834  
 DB 833 ---AGCTTGAGGACCTGAGCTTCTTCTGAGTGGCTTCTTCTGAGTGGCTGCTGCTGCT 889  
 QY 835 TAATGTTGTTGTTTGTGGAATGCTGCTTCTTAAACCTAAGGAAAGGAAAGAA 894  
 DB 890 CAACAGTTATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 949  
 QY 895 AGCAGCTGCGCCCTCTCATGATGTAAGAACCTCAAAAGGAGAGAGAGAGAGAGAGAGAG 954  
 DB 950 AGCGGCTTCTGAACTCTTATTAATGTAAGAACCTCAAAAGGAGAGAGAGAGAGAGAGAG 1009  
 QY 955 AGACCAAGAAAGAGTACCATACCTGAGAGATCTGATGAGAGAGAGAGAGAGAGAGAG 1011  
 DB 1010 AGACCAAGAAAGAGTACCATACCTGAGAGATCTGATGAGAGAGAGAGAGAGAGAG 1069  
 QY 1012 TTAACATTTTGAAGACAGCTTACCTGAGAGATCTGATGAGAGAGAGAGAGAGAGAG 1048  
 DB 1070 TTAACATTTTGAAGACAGCTTACCTGAGAGATCTGATGAGAGAGAGAGAGAGAGAG 1106

RESULT 10  
 US-11-137-807-16  
 ; Sequence 16, Application US/11137807  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Riley, James  
 ; APPLICANT: June, Carl  
 ; APPLICANT: Vonderheide, Robert  
 ; APPLICANT: Aquil, Nicole  
 ; APPLICANT: Suhoski, Megan  
 ; TITLE OF INVENTION: NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR  
 ; FILE REFERENCE: 053893-5054US1



; CURRENT APPLICATION NUMBER: US/11/137,807  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/575,712  
; PRIOR FILING DATE: 2004-05-27  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 16  
; LENGTH: 2794  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-137-807-16

Query Match 53.8%; Score 580.6; DB 23; Length 2794;  
Best Local Similarity 75.9%; Pred. No. 2.1e-147;  
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTTCTCTGGGAATGCTCACTGAGCTATACATCTGGTCTCTG---GGAGCTGC 57  
DB 62 GCTTCTGTGTTCTCTGGGAATGCTGCTGCTATGCACTCTGGTCTCTTTTGGAGCTAC 121  
QY 58 AGTGGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTTGTGATGGCCC 117  
DB 122 AGTGGACAGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTTGTGATGGCCT 181  
QY 118 TCCTGCTCTCTGGTGTCTCTCCATGAGAGTCAAGCATATTTCAACAGACTGGAGAAC 177  
DB 182 TCCTGCTCTCTGGTGTCTCTCTGAGATTCAAGCTTATTTTCAATGAGACTGGAGAAC 241  
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DB 242 TGCCATGCAATTTTACAACTCTCAAAACATTAAGCTGGATGAGCTGTAGTATTTTGGC 301  
QY 238 AGGACCAAGTAAGCTGTCTGTATGAGATATTCAGAGGCAAGAGAACTTCAAAATG 297  
DB 302 AGGACCAAGTAAGCTGTCTGTATGAGATATTCAGAGGCAAGAGAACTTCAAAATG 361  
QY 298 TTCACTCTCAATATTAAGGCGCTTACAGCTTTTGACAGCACTGGCCCTGAGACTCC 357  
DB 362 TTCACTCTCAATATTAAGGCGCTTACAGCTTTTGACAGCACTGGCCCTGAGACTTC 421  
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DB 422 ACAATGTTTCAGATCAGGACCAAGGCGCTTGTATCAATGTATCATTCATCAAAAGGCGCA 481  
QY 418 AAGACTAGTTTCCATGCAACCAATGAGTCTTCACTATCACTGCTTGTCTTAACTTCAGTC 477  
DB 482 CAGGAATGATTGGCATCCAGACAGATGAAATTTCTGAACCTGTCACTGCTTGTCACTTCAGTC 541  
QY 478 AACCTGAATTAACAGTAATCTCTTAATAGACAGAAATTTCTGGCATCATTAATTTGACCT 537  
DB 542 AACCTGAATTAACAGTAATCTCTTAATATTAACAGAAATTTCTGGCATCATTAATTTGACCT 598  
QY 538 GCTCATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTTAACACTGAGA 597  
DB 599 GCTCATCTATACAGGTTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTTAACACTGAGA 658  
QY 598 ATTCACTACTAGTATGATCTGTCATGAAGAAATCTCAAAATTAATGTGACAGAACTGT 657  
DB 659 ATTCACTACTAGTATGATCTGTCATGAAGAAATCTCAAAATTAATGTGACAGAACTGT 718  
QY 658 ACAAGTTTCTATCAGCTTCTCTTTTTCAGTCCCTGAG---CACACATGAGAGGCTCT 714  
DB 719 ACAAGTTTCTATCAGCTTCTCTTTTTCAGTCCCTGAGTTTACAGCAATATGACCACTCT 778  
QY 715 TTTTGGCCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATG 774  
DB 779 TCTGTATTTCTGAAACTGACAC---AGACCGGCTTTTATCTTCACTCTCTCTATAG--- 832  
QY 775 CACAACTTAAGGATAAAGACCTTGAACAGGCGCACTTCTCTGATTTGGGCTGTACTTG 834  
DB 833 ---AGCTTGAAGGACCTCAGCTTCCCGCCAGACCAATTCCTTGTGATTTAGCTGTACTTC 889  
QY 835 TAATGTTTGTGTTTGTGTTGAGATGGTGTCTTTTAAACACACTAAGGAAAGAGAGAGA 894

DB 890 CAACAGTATTATATGTGTGATGGTTTCTGTCTGTCTATATTCATGGAATGGAAGAGA 949  
QY 895 AGCAGCTGCGCCCTCTCATGATGTGAACCATCAAAAGGGAGAGAAAGAGAGCNAAC 954  
DB 950 AGCGCTCTCGAACTCTTATAAATGTGAACCAACACATTTGGAGGGGAAGAGAGTGAAC 1009  
QY 955 AGACCAACGAAGAGTACCATACCACTGAGATCTGATGAAGAGCCAGCTGTG--- 1011  
DB 1010 AGACCAAGAAAGAGAAATATCCATATACCTGAAAGATCTGATGAAGCCAGCTGTG 1069  
QY 1012 TTAACATTTTGAAGACAGCTCTCAGGGGACAAAATCA 1048  
DB 1070 TTAAGCTTGAAGACATCTTCAATGCGACAAAAGTGA 1106

RESULT 11  
US-10-302-689A-57885  
; Sequence 57885, Application US/10302689A  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Asundi, Vinod  
; APPLICANT: Ballinger, Dennis  
; APPLICANT: Labat, Ivan  
; APPLICANT: Leshkowitz, Dena  
; APPLICANT: Liu, Jin  
; APPLICANT: Loeb, Deborah  
; APPLICANT: Montgomery, Julia, R.  
; APPLICANT: Pace, Ann M.  
; APPLICANT: Sheridan, James P.  
; APPLICANT: Drmanac, Radoje T.  
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
; FILE REFERENCE: 502CIP  
; CURRENT APPLICATION NUMBER: US/10/302,689A  
; PRIOR FILING DATE: 2002-11-22  
; PRIOR APPLICATION NUMBER: 10/273,573  
; PRIOR FILING DATE: 2002-10-18  
; PRIOR APPLICATION NUMBER: 10/084,643  
; PRIOR FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: 09/989,660  
; PRIOR FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: 10/014,487  
; PRIOR FILING DATE: 2001-11-08  
; PRIOR APPLICATION NUMBER: 09/952,981  
; PRIOR FILING DATE: 2001-09-14  
; PRIOR APPLICATION NUMBER: 09/922,279  
; PRIOR FILING DATE: 2001-08-03  
; PRIOR APPLICATION NUMBER: 09/905,059  
; PRIOR FILING DATE: 2001-07-12  
; PRIOR APPLICATION NUMBER: 09/898,888  
; PRIOR FILING DATE: 2001-07-03  
; PRIOR APPLICATION NUMBER: 09/919,002  
; PRIOR FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 09/770,160  
; PRIOR FILING DATE: 2001-01-26  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 158931  
; SOFTWARE: Pf SEQ\_genes Version 1.0  
; SEQ ID NO 57885  
; LENGTH: 1830  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-302-689A-57885

Query Match 49.4%; Score 533.2; DB 9; Length 1830;  
Best Local Similarity 75.3%; Pred. No. 1.6e-134;  
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;  
QY 79 GCATATGAGCTGAGTCACTCTCTTGTGATGGCCCTCTCTCTCTCTCTCTCTCTCTCT 138  
DB 120 GCATATGAGCTGAGTCACTCTCTTGTGATGGCCCTCTCTCTCTCTCTCTCTCTCTCT 179  
QY 139 CCATGAAGAGTCAAGCATATTTCAACAGAGACTGGCAACTGCCATGCCATTTTACAACT 198

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180 CTCTGAGATTAAGCTTATTTCAATGAGACTGACGACTGCCATGTCCTGCAATTTGCAAACT 239
199 CTCAAAACATAAGCTCTGATGAGCTGATGATTTTGGCAGGACACGAGTAAGCTGGTTC 258
240 CTCAAAACCAAGCTCTGATGAGCTGATGATTTTGGCAGGACACGAGTAAGCTGGTTC 299
259 TGTATGAGATTAAGCTCTGATGAGCTGATGATTTTGGCAGGACACGAGTAAGCTGGTTC 318
300 TGAATGAGATTAAGCTCTGATGAGCTGATGATTTTGGCAGGACACGAGTAAGCTGGTTC 359
319 GTACAAAGCTTTGACAGGACAACTGACCTGACCTGACCTGACCTGACCTGACCTGACCTGACCT 378
360 GCACAAAGCTTTGATTCGACAGCTGACCTGACCTGACCTGACCTGACCTGACCTGACCTGACCT 419
379 AGGGCACAATATCACTGTTTCAATTAATAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 438
420 AGGGCTGTATCAATGATATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 479
439 AATGAGCTTTGACAGGACAACTGACCTGACCTGACCTGACCTGACCTGACCTGACCTGACCTGACCT 498
480 AGATGAATTTGACAGGACAACTGACCTGACCTGACCTGACCTGACCTGACCTGACCTGACCTGACCT 539
499 CTAATAGAAACAGAAATTTGCGCATCATATAATAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 558
540 CTAATATAACAGAAATTTGCGCATCATATAATAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 596
559 CAGAACTTAAGGAGATTAATTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 618
597 CAGAACTTAAGGAGATTAATTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 656
619 CTGTCAAGAAATTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 678
657 GTATATGAGAAATTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 716
679 CTATTTGAGCTTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 735
717 CTGTATTTGAGCTTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 776
736 CACTGAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 795
777 ---AGACGCGGCTTTATCTTCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 827
796 CTGAAACAGGACCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 855
828 CTCCCCCAGACCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 887
856 GAGTGTGCTTCTTAAACACTAAGGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 915
888 TGGTGTCTGCTTAAATCTATGGAATGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 947
916 AATGTGAACCATCAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 975
948 AATGTGAACCAACACATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1007
976 ACCAGTACCTGAGATCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1032
1008 TCCATATACCTGAAAGTCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1067
1033 CAGGGGACAAATATCA 1048
1068 CATCGCAAAAGTGA 1083

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RESULT 12
PCT-US05-18790-56
; Sequence 56, Application PC/TUS0518790
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM
; FILE REFERENCE: H01-055PC
; CURRENT APPLICATION NUMBER: PCT/US05/18790

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; CURRENT FILING DATE: 2005-06-06
; PRIOR APPLICATION NUMBER: 60/575,143
; PRIOR FILING DATE: 2004-05-28
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn 3.3
; SEQ ID NO 56
; LENGTH: 2781
; TYPE: DNA
; ORGANISM: Homo sapiens
; PCT-US05-18790-56

Query Match 49.4%; Score 533.2; DB 1; Length 2781;
Best Local Similarity 75.3%; Pred. No. 1.8e-134;
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

Qy 79 GCATATGGGAGCTGAGTCAACCTCTCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 138
Db 130 GCATATGGGAGCTGAGTCAACCTCTCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 189
Qy 139 CCATGAAGAGTCAAGCATATTTCAACAGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 198
Db 190 CTCTGAAGATTCAGCTTATTTCAATGAGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 249
Qy 199 CTCAAAACATAAGCTCTGATGAGCTGATGATTTTGGCAGGACACGAGTAAGCTGGTTC 258
Db 250 CTCAAAACCAAGCTCTGATGAGCTGATGATTTTGGCAGGACACGAGTAAGCTGGTTC 309
Qy 259 TGTATGAGATTAATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 318
Db 310 TGAATGAGGATTAATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 369
Qy 319 GTACAAAGCTTTGAGAGGAGCAACTGAGAGCTGAGAGCTGAGAGCTGAGAGCTGAGAGCTGAGAGCTGAG 378
Db 370 GCACAAAGCTTTGATTTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 429
Qy 379 AGGGCACAATATCACTGTTTCAATTAATAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 438
Db 430 AGGGCTGTATCAATGATATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 489
Qy 439 AATGAGCTTTGAGCTTATCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 498
Db 490 AGATGAATTTCTGAGCTGCTGAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 549
Qy 499 CTAATAGAAACAGAAATTTGCGCATCATATAATAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 558
Db 550 CTAATATAACAGAAATTTGCGCATCATATAATAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 606
Qy 559 CAGAACTTAAGGAGATTAATTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 618
Db 607 CAGAACTTAAGGAGATTAATTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 666
Qy 619 CTGTCAAGAAATTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 678
Db 667 GTATATGAGAAATTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 726
Qy 679 CTATTTGAGCTTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 735
Db 727 CTGTATTTGAGCTTTGAGCTTAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 786
Qy 736 CACTGAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 795
Db 787 ---AGACGCGGCTTTATCTTCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 837
Qy 796 CTGAAACAGGACCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 855
Db 838 CTCCCCCAGACCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 897
Qy 856 GAGTGTGCTTCTTAAACACTAAGGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 915
Db 898 TGGTGTCTGCTTAAATCTATGGAATGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 957
Qy 916 AATGTGAACCATCAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 975

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Db	958	ANTGTGGACCAACAATGGAGAGGAGGAGAGTGAACAGACCAAGAAAGAGAGAGAA 1017
Qy	976	ACGAGTACCTGAGAGATCTGATGAGGCGGAGTGTG---TTACATTTTGAAGACAGCT 1032
Db	1018	TCCATATACCTGAAGATCTGATGAGGCGGAGTGTGTTTAAAGTTCGAAGACATCTT 1077
Qy	1033	CAGGAGCAAAAATCA 1048
Db	1078	CATCGACAAAAGTGA 1093
RESULT 13		
US-11-170-797-2		
; Sequence 2, Application US/11170797		
; GENERAL INFORMATION:		
; APPLICANT: Lechler, Robert		
; APPLICANT: Rogers, Nichola		
; APPLICANT: Dotling, Anthony		
; APPLICANT: ML Laboratories PLC		
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A XENOGRAFT		
; FILE REFERENCE: 5585-59112-02		
; CURRENT APPLICATION NUMBER: US/11/170,797		
; CURRENT FILING DATE: 2005-06-28		
; PRIOR APPLICATION NUMBER: US 09/868,605		
; PRIOR FILING DATE: 2001-06-19		
; PRIOR APPLICATION NUMBER: PCT/GB99/04200		
; PRIOR FILING DATE: 1999-12-17		
; PRIOR APPLICATION NUMBER: 9827921.9		
; PRIOR FILING DATE: 1998-12-19		
; PRIOR APPLICATION NUMBER: 9925015.1		
; PRIOR FILING DATE: 1999-10-23		
; NUMBER OF SEQ ID NOS: 39		
; SOFTWARE: PatentIn Ver. 2.1		
; SEQ ID NO 2		
; LENGTH: 972		
; TYPE: DNA		
; ORGANISM: Homo sapiens		
US-11-170-797-2		
Query Match 48.9%; Score 528.2; DB 23; Length 972;		
Best Local Similarity 75.2%; Pred. NO. 3e-133;		
Matches 730; Conservative 0; Mismatches 223; Indels 18; Gaps 5;		
Qy	84	ATGGAGCTGACTACACTCTCTTGTGATGGCCCTCCCTGCTCTCTGCTGTTTCTCCATG 143
Db	1	ATGGAGCTGAGTAACATCTCTTGTGATGGCCCTCCCTGCTCTCTGCTGTTTCTCCATG 60
Qy	144	AAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTCAAACTCTCAA 203
Db	61	AAGATTCAAGCTTATTTCAATGAGACTGCAGACCTGCCATGCCATTTTCAAACTCTCAA 120
Qy	204	AACATAACCTCGATGAGCTGGTAGTATTTTGGCAGGACCCAGGATAAGCTGGTCTGTAT 263
Db	121	NACCAAGCCCTGAGTGGCTAGTAGTATTTTGGCAGGACCCAGGAAAACCTGGTCTGTAT 180
Qy	264	GAGATTTCAAGCAAGGAGAACCTCAAAATGTTTCATCTCAATATATAGGCGCTGACA 323
Db	181	GAGTATTAATTTAGCAAGAGAAATTTGACAGTGTTCATTCAGATATATAGGCGCTGACA 240
Qy	324	AGCTTTGACAGGACAACTGGACCTGAGACTCCCAATGTTTCAGATCAAGGAGGCGC 383
Db	241	AGTTTGTGATTCGACAGTGGAGCCCTGAGACTTCAATCTTCAGATCAAGGACAAAGGCGC 300
Qy	384	ACATATCACTGTTTCATTTAATTAAGGCGCCCAAGGACTAGTTCCTCATGCCACCAATG 443
Db	301	TTGTATCAATGTATCATCCATCAAAAAGCCCAAGGAGTATTCATTCATCCAGATG 360
Qy	444	AGTTCTGACCTATCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 503
Db	361	AAATCTGACATGTGAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
Qy	504	AGAAACAGAAAATTTCTGGCATCATAAATTTGACCTGCTCATCTATACAGAGTTACCGAGAA 563

RESULT 14  
US-10-960-855-17  
; Sequence 17, Application US/10960855  
; GENERAL INFORMATION:  
; APPLICANT: ALBANI, SALVATORE  
; TITLE OF INVENTION: METHODS FOR ISOLATION, QUANTIFICATION, CHARACTERIZATION  
; FILE REFERENCE: AND-1001-CP2  
; CURRENT APPLICATION NUMBER: US/10/960,855  
; CURRENT FILING DATE: 2004-10-06  
; PRIOR APPLICATION NUMBER: 60/510,645  
; PRIOR FILING DATE: 2003-10-10  
; PRIOR APPLICATION NUMBER: 09/756,983  
; PRIOR FILING DATE: 2001-01-09  
; PRIOR APPLICATION NUMBER: 09/421,506  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: PCT/US99/2466  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/105,018  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 3.3  
; SEQ ID NO 17  
; LENGTH: 1056  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: fusion construct with human and bacterial  
; OTHER INFORMATION: sequences  
US-10-960-855-17

Query Match 39.8%; Score 429.6; DB 12; Length 1056;  
Best Local Similarity 79.3%; Pred. NO. 2.5e-106;



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:49:39 ; Search time 23 seconds  
(without alignments)  
1067.806 Million cell updates/sec

Title: US-09-303-510-6  
Perfect score: 1737  
Sequence: 1 MGICDSTMGSLHTLLVMALL.....RSDAQCWILKTASGDKNQ 329

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:  
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5: /cgn2\_6/ptodata/1/1aa/PTUS.COMB.pep.\*  
6: /cgn2\_6/ptodata/1/1aa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query No.	Score	Match	Length	DB ID	Description
1	1737	100.0	329	4	US-09-651-200-18	Sequence 18, Appl
2	1737	100.0	329	4	US-09-303-040-6	Sequence 6, Appl
3	1372	79.0	329	4	US-09-651-200-19	Sequence 19, Appl
4	1157	66.6	325	4	US-09-651-200-20	Sequence 20, Appl
5	932	53.7	372	4	US-09-949-016-11132	Sequence 11132, A
6	903	52.0	329	2	US-08-456-104-2	Sequence 2, Appl
7	903	52.0	329	2	US-08-101-624-2	Sequence 2, Appl
8	903	52.0	329	3	US-08-479-744A-2	Sequence 2, Appl
9	903	52.0	329	3	US-08-280-757B-2	Sequence 2, Appl
10	903	52.0	329	3	US-08-205-697A-23	Sequence 23, Appl
11	903	52.0	329	3	US-08-702-525-23	Sequence 23, Appl
12	903	52.0	329	3	US-08-403-253A-4	Sequence 4, Appl
13	903	52.0	329	4	US-08-435-816A-4	Sequence 4, Appl
14	903	52.0	329	4	US-09-425-762-2	Sequence 2, Appl
15	903	52.0	329	4	US-09-837-867A-23	Sequence 23, Appl
16	903	52.0	329	4	US-09-206-132-2	Sequence 2, Appl
17	903	52.0	329	4	US-09-441-411-26	Sequence 26, Appl
18	903	52.0	329	4	US-09-425-516-2	Sequence 2, Appl
19	903	52.0	329	5	PCT-US95-02576-23	Sequence 23, Appl
20	900	51.8	329	4	US-09-667-135-32	Sequence 32, Appl
21	898	51.7	323	4	US-09-651-200-21	Sequence 21, Appl
22	898	51.7	323	4	US-09-441-411-22	Sequence 22, Appl
23	898	51.7	323	5	PCT-US94-09642-2	Sequence 2, Appl
24	894.5	51.5	324	4	US-09-910-174B-6	Sequence 6, Appl
25	894.5	51.5	324	4	US-09-620-461-6	Sequence 6, Appl
26	746.5	43.0	351	4	US-09-756-983-18	Sequence 18, Appl
27	682.5	39.3	218	4	US-09-451-291-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1

US-09-651-200-18  
Sequence 18, Application US/09651200

Patent No. 6429303

GENERAL INFORMATION:

APPLICANT: Green et al

TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B

TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and

FILE OF INVENTION: Polypeptides Encoded Thereby

FILE REFERENCE: 15966-562 (CURA-62)

CURRENT APPLICATION NUMBER: US/09/651,200

PRIOR FILING DATE: 2000-08-30

PRIOR APPLICATION NUMBER: 60/152383

PRIOR FILING DATE: 1995-09-03

PRIOR APPLICATION NUMBER: 60/172909

PRIOR FILING DATE: 1995-12-21

PRIOR APPLICATION NUMBER: 60/183578

PRIOR FILING DATE: 2000-02-18

NUMBER OF SEQ ID NOS: 25

SOFTWARE: Patent In Ver. 2.0

SEQ ID NO 18

LENGTH: 329

TYPE: PRT

ORGANISM: Felis catus

US-09-651-200-18

Query Match 100.0%, Score 1737, DB 4; Length 329;

Best Local Similarity 100.0%, Pred. No. 2.5e-168;

Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTGELPCHPTNSQNSISLDELVFWQD	60
DB	1	MGICDSTMGSLHTLLVMALLSGVSSMKSQAYFNKTGELPCHPTNSQNSISLDELVFWQD	60
QY	61	ODKLVLVETPRGKENVHLYKORTSFDKNTLHLNVQIKDKTYHCFTHYKPKG	120
DB	61	ODKLVLVETPRGKENVHLYKORTSFDKNTLHLNVQIKDKTYHCFTHYKPKG	120
QY	121	LVPKHQMSDLSVLANFSPQBITVTNSRNTENSQIINTCSIQGYPEPKEMYFQNLATNS	180
DB	121	LVPKHQMSDLSVLANFSPQBITVTNSRNTENSQIINTCSIQGYPEPKEMYFQNLATNS	180
QY	181	TKYDTVMKSKQNNVTELYNVSISLPSVPEARNVSVPCALKLETLMLSLSPNDAOP	240
DB	181	TKYDTVMKSKQNNVTELYNVSISLPSVPEARNVSVPCALKLETLMLSLSPNDAOP	240
QY	241	KDKDPGQGHPLTAALVNVFVFCGMSFKTLRKRKKKQPGPSHECTIIRKRKSKQTN	300
DB	241	KDKDPGQGHPLTAALVNVFVFCGMSFKTLRKRKKKQPGPSHECTIIRKRKSKQTN	300

get to 18 did in to patent  
NOT issued in to patent  
NOT issued in to patent  
NOT issued in to patent

OY 301 ERVPHVPSDEAQCWNILKTASGDKNQ 329  
DB 301 ERVPHVPSDEAQCWNILKTASGDKNQ 329

## RESULT 2

US-09-303-040-6

; Sequence 6, Application US/09303040  
; Patent No. 655671

GENERAL INFORMATION:

APPLICANT: Winlow, Barbara J.

APPLICANT: Cochran, Mark D.

TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding

TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CD28, Feline CTLA-4 or

TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof

FILE REFERENCE: 54957-B

CURRENT APPLICATION NUMBER: US/09/303,040

CURRENT FILING DATE: 1999-04-30

EARLIER APPLICATION NUMBER: 60/083,870

EARLIER FILING DATE: 1998-05-01

NUMBER OF SEQ ID NOS: 82

SOFTWARE: Patent In Ver. 2.0

SEQ ID NO 6

LENGTH: 329

TYPE: PRT

ORGANISM: feline CD86

US-09-303-040-6

Query Match 100.0%; Score 1737; DB 4; Length 329;  
Best Local Similarity 100.0%; Pred. No. 2.5e-168;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MGICDSTWGLSHTLLVWALLSGVSSMSQAYFNKGTGELPCHFTNSQNSLDELVVFQD 60

DB 1 MGICDSTWGLSHTLLVWALLSGVSSMSQAYFNKGTGELPCHFTNSQNSLDELVVFQD 60

OY 61 ODKLVYIEIRGKENPQNVHLKYGRTSPDKDNWTLRLHNVQIKDGTGTCFHYKGP 120

DB 61 ODKLVYIEIRGKENPQNVHLKYGRTSPDKDNWTLRLHNVQIKDGTGTCFHYKGP 120

OY 121 LVPWHMSSDLSVLNFSQPEITVTSNRTENSGIINLTCSIOGYPEPKEMFQNTENS 180

DB 121 LVPWHMSSDLSVLNFSQPEITVTSNRTENSGIINLTCSIOGYPEPKEMFQNTENS 180

OY 181 TTKYDVTWKSSQNNVTLYNVSISLPFSVPBAHNVSVFCALKLETLEMLSLPENNDAQP 240

DB 181 TTKYDVTWKSSQNNVTLYNVSISLPFSVPBAHNVSVFCALKLETLEMLSLPENNDAQP 240

OY 241 KKDPEQGHFLWIAAFLVMPVFCMVSPKTLRKRKKQPGPSHECETIKRBRKSKQTN 300

DB 241 KKDPEQGHFLWIAAFLVMPVFCMVSPKTLRKRKKQPGPSHECETIKRBRKSKQTN 300

OY 301 ERVPHVPSDEAQCWNILKTASGDKNQ 329

DB 301 ERVPHVPSDEAQCWNILKTASGDKNQ 329

## RESULT 3

US-09-651-200-19

; Sequence 19, Application US/09651200

Patent No. 6429303

GENERAL INFORMATION:

APPLICANT: Green et al

TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B

TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and

TITLE OF INVENTION: Polypeptides Encoded Thereby

FILE REFERENCE: 15966-562 (CURA-62)

CURRENT APPLICATION NUMBER: US/09/651,200

CURRENT FILING DATE: 2000-08-30

PRIOR APPLICATION NUMBER: 60/152383

PRIOR FILING DATE: 1999-09-03

PRIOR APPLICATION NUMBER: 60/172909

PRIOR FILING DATE: 1999-12-21

; PRIOR APPLICATION NUMBER: 60/183578  
; PRIOR FILING DATE: 2000-02-18

NUMBER OF SEQ ID NOS: 25

SOFTWARE: Patent In Ver. 2.0

SEQ ID NO 19

LENGTH: 329

TYPE: PRT

ORGANISM: Canis familiaris

US-09-651-200-19

Query Match 79.0%; Score 1372; DB 4; Length 329;  
Best Local Similarity 81.7%; Pred. No. 3.7e-131;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

OY 7 TWGLSHTLLVWALLSGVSSMSQAYFNKGTGELPCHFTNSQNSLDELVVFQDQDKVL 66

DB 6 TWGLSHTLLVWALLSGVSSMSQAYFNKGTGELPCHFTNSQNSLDELVVFQDQDKVL 65

OY 67 YEIPRGKENPQNVHLKYGRTSPDKDNWTLRLHNVQIKDGTGTCFHYKGPGLVPMHQ 126

DB 67 YEIPRGKENPQNVHLKYGRTSPDKDNWTLRLHNVQIKDGTGTCFHYKGPGLVPMHQ 125

OY 127 MSSDLSVLNFSQPEITVTSNRTENSGIINLTCSIOGYPEPKEMFQNTENSTTKYDT 186

DB 127 MSSDLSVLNFSQPEITVTSNRTENSGIINLTCSIOGYPEPKEMFQNTENSTTKYDT 185

OY 187 VMKSSQNNVTLYNVSISLPFSVPBAHNVSVFCALKLETLEMLSLPENNDAQPKDKPE 246

DB 187 VMKSSQNNVTLYNVSISLPFSVPBAHNVSVFCALKLETLEMLSLPENNDAQPKDKPE 243

OY 247 QGHFLWIAAFLVMPVFCMVSPKTLRKRKKQPGPSHECETIKRBRKSKQTNRPVYH 306

DB 247 QGHFLWIAAFLVMPVFCMVSPKTLRKRKKQPGPSHECETIKRBRKSKQTNRPVYH 303

OY 307 VPERSDEAQCWNILKTASGDKN 328

DB 307 VPERSDEAQCWNILKTASGDKN 325

## RESULT 4

US-09-651-200-20

; Sequence 20, Application US/09651200

Patent No. 6429303

GENERAL INFORMATION:

APPLICANT: Green et al

TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B

TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and

TITLE OF INVENTION: Polypeptides Encoded Thereby

FILE REFERENCE: 15966-562 (CURA-62)

CURRENT APPLICATION NUMBER: US/09/651,200

CURRENT FILING DATE: 2000-08-30

PRIOR APPLICATION NUMBER: 60/152383

PRIOR FILING DATE: 1999-09-03

PRIOR APPLICATION NUMBER: 60/172909

PRIOR FILING DATE: 1999-12-21

PRIOR APPLICATION NUMBER: 60/183578

PRIOR FILING DATE: 2000-02-18

NUMBER OF SEQ ID NOS: 25

SOFTWARE: Patent In Ver. 2.0

SEQ ID NO 20

LENGTH: 325

TYPE: PRT

ORGANISM: sus sp.

US-09-651-200-20

Query Match 66.6%; Score 1157; DB 4; Length 325;  
Best Local Similarity 70.1%; Pred. No. 2.9e-109;  
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

OY 8 MGLSHTLLVWALLSGVSSMSQAYFNKGTGELPCHFTNSQNSLDELVVFQDQDKVL 67

DB 1 MGLSHTLLVWALLSGVSSMSQAYFNKGTGELPCHFTNSQNSLDELVVFQDQDKVL 60

QY 68 EIPRGENPONVHLKYGRTSFQKONWTLRLHNVOIKDGYTHCFIHYKPGKGLVPMHQ 127  
 DB 61 ELYRQEKPHVNSKYMGRTSFQATWTLRLHNVOIKDGYTHCFIHYKPGKGLVPMHQ 120  
 QY 128 SSDLSVLANSQPEITVTSNRNTENGINLTCSSIOGYPEPKMYFOLNTENSTTKYDTV 187  
 DB 121 SSDLSVLANSQPEITVTSNRNTENGINLTCSSIOGYPEPKMYFOLNTENSTTKYDTV 179  
 QY 188 MKSQNNVTLNYSISLPSVPEAHNSVFCALKLEMLL-SLPFNIDAPKDKOP 246  
 DB 180 MKSQNNVTLNYSISLPSVPEAHNSVFCALKLEMLL-SLPFNIDAPKDKOP 239  
 QY 247 QGHFLWIAAALVWVFCGMSFKTLRKKQPGPSHEC-ETIKRERKESKOTNERVP 305  
 DB 240 PDHILWIAAALVWVFCGMSFKTLRKKQPGPSHEC-ETIKRERKESKOTNERVP 299  
 QY 306 HYPERSDEAOC-VNLIKTAGDKN 328  
 DB 300 H-ERSDQAQCDVNLIKTAGDKN 321

RESULT 5

US-09-949-016-11132  
 ; Sequence 11132, Application US/09949016  
 ; Patent No. 6812339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VENTER, J. Craig et al.  
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 ; FILE REFERENCE: C0001307  
 ; CURRENT APPLICATION NUMBER: US/09/949,016  
 ; CURRENT FILING DATE: 2000-04-14  
 ; PRIOR APPLICATION NUMBER: 60/241,755  
 ; PRIOR FILING DATE: 2000-10-20  
 ; PRIOR APPLICATION NUMBER: 60/237,768  
 ; PRIOR FILING DATE: 2000-10-03  
 ; PRIOR APPLICATION NUMBER: 60/231,498  
 ; PRIOR FILING DATE: 2000-09-08  
 ; NUMBER OF SEQ ID NOS: 207012  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 11132  
 ; LENGTH: 372  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 ; US-09-949-016-11132

Query Match 53.78; Score 932; DB 4; Length 372;  
 Best Local Similarity 59.18; Pred. No. 2.9e-86;  
 Matches 195; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
 QY 2 GICDSTGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVWPMQDQ 61  
 DB 44 GICDSTGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVWPMQDQ 103  
 QY 62 DKVLVEIFRGENPONVHLKYGRTSFQKONWTLRLHNVOIKDGYTHCFIHYKPGKGL 121  
 DB 104 ENVLNVEYLKGEKPSVHVKYGRTSFQKONWTLRLHNVOIKDGYTHCFIHYKPGKGL 163  
 QY 122 VPMQMSDLSVLANSQPEITVTSNRNTENGINLTCSSIOGYPEPKMYFOLNTENST 181  
 DB 164 TRIHOMNSLSVLANSQPEITVTSNRNTENGINLTCSSIOGYPEPKMYFOLNTENST 222  
 QY 182 TKYDTVMKSKQNNVTLNYSISLPSVPEAHNSVFCALKLEMLL-SLPFNIDAPKDKOP 240  
 DB 223 IRYDGMQSKQNNVTLNYSISLPSVPEAHNSVFCALKLEMLL-SLPFNIDAPKDKOP 280  
 QY 241 KDKQPEQGHFLWIAAALVWVFCGMSFKTLRKKQPGPSHECETIKRERKESKOT 299  
 DB 281 -DPQPPPHIPIWITAVLPT-VIICVMVFCLLIWKKKKKGRPRNSYKCGTNTMERSEOT 338  
 QY 300 NERVEYHYVPSDEAOCV-NILKTASGDN 328  
 DB 339 KKRKIHIPIPSDEAOCV-NILKTASGDN 368

RESULT 6

US-08-456-104-2  
 ; Sequence 2, Application US/08456104  
 ; Patent No. 5861310  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Freeman, Gordon J.  
 ; APPLICANT: Nadler, Gary S.  
 ; TITLE OF INVENTION: TUMOR CELLS MODIFIED TO EXPRESS B7-2 AND B7-3 WITH INCREASE  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHVIS & COCKFIELD  
 ; STREET: 60 State Street, Suite 510  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109  
 ; COMPUTER READABLE FORM: disk  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/456,104  
 ; FILING DATE:  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA: 08/101,624;  
 ; APPLICATION NUMBER:  
 ; FILING DATE: 26-JUL-1993;  
 ; APPLICATION NUMBER: 08/109,393;  
 ; APPLICATION NUMBER: 19-AUG-1993  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Mandragouras, Amy E.  
 ; REGISTRATION NUMBER: 36,207  
 ; REFERENCE/DOCKET NUMBER: RPI-008  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 329 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-456-104-2

Query Match 52.08; Score 903; DB 2; Length 329;  
 Best Local Similarity 58.38; Pred. No. 2.1e-83;  
 Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
 QY 7 TWGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVWPMQDQ 66  
 DB 6 TWGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVWPMQDQ 65  
 QY 67 YEIFRGENPONVHLKYGRTSFQKONWTLRLHNVOIKDGYTHCFIHYKPGKGLVPMHQ 126  
 DB 66 NEVLNVEYLKGEKPSVHVKYGRTSFQKONWTLRLHNVOIKDGYTHCFIHYKPGKGLVPMHQ 125  
 QY 127 MSSDLSVLANSQPEITVTSNRNTENGINLTCSSIOGYPEPKMYFOLNTENSTTKYDT 186  
 DB 126 MNSLSVLANSQPEITVTSNRNTENGINLTCSSIOGYPEPKMYFOLNTENSTTKYDT 184  
 QY 187 VPMQMSDLSVLANSQPEITVTSNRNTENGINLTCSSIOGYPEPKMYFOLNTENSTTKYDT 245  
 DB 195 IRYDGMQSKQNNVTLNYSISLPSVPEAHNSVFCALKLEMLL-SLPFNIDAPKDKOP 241  
 QY 246 EOGHFLWIAAALVWVFCGMSFKTLRKKQPGPSHECETIKRERKESKOTNERVP 304  
 DB 242 PDHILWIAAALVWVFCGMSFKTLRKKQPGPSHECETIKRERKESKOTNERVP 300  
 QY 305 HYPERSDEAOCV-NILKTASGDN 328

Db 301 THIPERSDEAQRVFKSKTSKCDKS 325

## RESULT 7

US-08-101-624-2  
; Sequence 2, Application US/08101624  
; Patent No. 5942607  
; GENERAL INFORMATION:  
; APPLICANT: Freeman, Gordon J.  
; APPLICANT: Nadler, Lee M.  
; APPLICANT: Gray, Gary S.  
; TITLE OF INVENTION: No. 5942607el CTIL4/CD28 Ligands and  
; TITLE OF INVENTION: Uses Therefor  
; NUMBER OF SEQUENCES: 25  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 60 State Street, Suite 510  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/101,624  
; FILING DATE: 26-JUL-1993  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy B.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-004  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-5940  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-101-624-2

Query Match 52.0%; Score 903; DB 2; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQISLDELVVFQDQDKLVL 66  
DB 6 TMGLSNILFWAFLLSGAAPLKIQAYFNETADLPQFANSONQSLSELVVFQDQENLVL 65  
QY 67 YEIRGKENVHLYKGTSTFDKDNWTLHLNVOIKDGTVCPIHYKGPGLVPMHQ 126  
DB 66 NEVYLKKEKFDPSVHSKYMGRTSPDSWTLRLNLQIKDGLYQCIHHKKPTGMIRHQ 125  
QY 127 MSSDLVLANFSPQETVVTNSRNTENSGIINLTCSIIQGYPEPKMYFQNLNTSTTKYDT 186  
DB 126 MNSLSVLANFSPQETVPIISNTENV-YINLTCSIIHGYPEPKMSVLLRTKNTSTIEYDG 184  
QY 187 VMKKSQNNVTLYNVSISLPFSVPB-AHNVSFPCALKLETLEMLLSPFNIDAQPKDOP 245  
DB 185 IMQSQNNVTLYNVSISLPFSVPB-AHNVSFPCALKLETLEMLLSPFNIDAQPKDOP 241  
QY 246 EQGHFLIAVLVNFVFCMGVSFKTLAK-RKKQPGPSHECTIKREKESKQNERVP 304  
DB 242 PPDHPIWITAVLPT-VIICVMVFCLILWKWKCKKPRNSYKCGTNTMWEREEQTKREK 300

QY 305 YHVPERSEAOQCV-NILKTASGDKN 328  
DB 301 THIPERSDEAQRVFKSKTSKCDKS 325

## RESULT 8

US-08-479-744A-2  
; Sequence 2, Application US/08479744A  
; Patent No. 6084067  
; GENERAL INFORMATION:  
; APPLICANT: Freeman, Gordon J.  
; APPLICANT: Nadler, Lee M.  
; APPLICANT: Gray, Gary S.  
; TITLE OF INVENTION: No. 6084067el CTIL4/CD28 Ligands and  
; TITLE OF INVENTION: Uses Therefor  
; NUMBER OF SEQUENCES: 55  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 60 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/479,744A  
; FILING DATE: June 7, 1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/280,757  
; FILING DATE: 26-JUL-1994  
; APPLICATION NUMBER: 08/109,393  
; FILING DATE: 28-AUG-1993  
; APPLICATION NUMBER: 08/101,624  
; FILING DATE: 26-JULY-1993  
; APPLICATION NUMBER: 08/147,773  
; FILING DATE: 3-NOV-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragouras, Amy B.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-004CP3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-479-744A-2

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQISLDELVVFQDQDKLVL 66  
DB 6 TMGLSNILFWAFLLSGAAPLKIQAYFNETADLPQFANSONQSLSELVVFQDQENLVL 65  
QY 67 YEIRGKENVHLYKGTSTFDKDNWTLHLNVOIKDGTVCPIHYKGPGLVPMHQ 126  
DB 66 NEVYLKKEKFDPSVHSKYMGRTSPDSWTLRLNLQIKDGLYQCIHHKKPTGMIRHQ 125  
QY 127 MSSDLVLANFSPQETVVTNSRNTENSGIINLTCSIIQGYPEPKMYFQNLNTSTTKYDT 186  
DB 126 MNSLSVLANFSPQETVPIISNTENV-YINLTCSIIHGYPEPKMSVLLRTKNTSTIEYDG 184  
QY 187 VMKKSQNNVTLYNVSISLPFSVPB-AHNVSFPCALKLETLEMLLSPFNIDAQPKDOP 245



DB 185 IMQKSDNVTELVDSISLVSPDVTNMTIFCILETDKTR-LLSSPFFSELE--DPOP 241  
QY 246 EOGHFLMTAAVLVNFVFCGMSFKTLRK-RKKQPGPSHECETIKERKESKQTNERP 304  
DB 242 PPDHLPMTAVLPT-VIICVMVFCILWKKKKRPNRYKCGTNTWREESBQTKCRK 300  
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 9  
US-08-280-757B-2  
Sequence 2, Application US/08280757B  
Patent No. 6130316  
GENERAL INFORMATION:  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.  
APPLICANT: Gray, Gary S.  
APPLICANT: Greenfield, Edward  
TITLE OF INVENTION: No. 6130316el CTLA4/CD28 Ligands and  
TITLE OF INVENTION: Uses Therefor  
NUMBER OF SEQUENCES: 53  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, Suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/280,757B  
FILING DATE: 26-JUL-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/101,624  
FILING DATE: 26-JULY-1993  
APPLICATION NUMBER: 08/109,393  
FILING DATE: 19-AUG-1993  
APPLICATION NUMBER: 08/147,773  
FILING DATE: 3-NOV-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragoras, Amy E.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: RPI-004CP2  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-280-757B-2

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TWGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVVFMQDDKLV 66  
DB 6 TWGLSNILFWAFLSGAFLKIQAYFNETADLPQFANSONQSLSLVVFWDQENLV 65  
QY 67 YEIPRGKPNVHLKYKGTSPDKONTLRLHNVQIKDGTTHCFHYHKGKGLVPMHQ 126  
DB 66 NEVYLGKEKEDSVHSKYMGTSPDSWTLRLHNLQIKDKGLYQCIHHKKTGTGIRHQ 125

QY 127 MGSLSVLANPFSQPEITVTSNRTNSGIINLTCSISIOGYPPPKMYFQLTANSTTKYDT 186  
DB 126 MNSLSVLANPFSQPEIVPIPNITBNV-YINLTCSISIOGYPPPKMYFQLTANSTTKYDT 184  
QY 187 VMKSSQNNVTELVNVSISLPPSPVPE-ARNVSVFCALKLBTLEMLLSLPPKFNIDAPKDKOP 245  
DB 185 IMQKSDNVTELVDSISLVSPDVTNMTIFCILETDKTR-LLSSPFFSELE--DPOP 241  
QY 246 EOGHFLMTAAVLVNFVFCGMSFKTLRK-RKKQPGPSHECETIKERKESKQTNERP 304  
DB 242 PPDHLPMTAVLPT-VIICVMVFCILWKKKKRPNRYKCGTNTWREESBQTKCRK 300  
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 10  
US-08-205-697A-23  
Sequence 23, Application US/08205697A  
Patent No. 6218510  
GENERAL INFORMATION:  
APPLICANT: Sharpe, Arlene H.  
APPLICANT: Borriello, Francescopaulo  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.  
TITLE OF INVENTION: No. 6218510el Forms of T Cell Costimulatory Molecules  
TITLE OF INVENTION: and Uses Therefor  
NUMBER OF SEQUENCES: 61  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII Text  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/205,697A  
FILING DATE: 02-Mar-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragoras, Amy E.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: BWI-120  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-205-697A-23

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TWGLSHLLVWALLSGVSMKSOAYFNKGTGELPCHFTNSQNSISLDELVVFMQDDKLV 66  
DB 6 TWGLSNILFWAFLSGAFLKIQAYFNETADLPQFANSONQSLSLVVFWDQENLV 65  
QY 67 YEIPRGKPNVHLKYKGTSPDKONTLRLHNVQIKDGTTHCFHYHKGKGLVPMHQ 126  
DB 66 NEVYLGKEKEDSVHSKYMGTSPDSWTLRLHNLQIKDKGLYQCIHHKKTGTGIRHQ 125  
QY 127 MGSLSVLANPFSQPEITVTSNRTNSGIINLTCSISIOGYPPPKMYFQLTANSTTKYDT 186

126	db	MNSELVLAFNSQPEIVPISNTENV-YINLTCSSIHGYEPKQMSVLLRNTKONSTIEYDG	184
187	Qy	VNKGQNNVTLYNVSISLPSFVPE-AHNVSVFCALKLETLEMLLSLPFNIDAOIKDQDP	245
185	db	IMQKSQDNVTLYDNVSISLSVSFPDVTNNMTFCILETDKTR-LLSSPFSIELE--DPQP	241
246	Qy	EQGHFLMTAAVLNVWFVFCGMSFKTLRK-RKKQKQPGSGECSTIKRKESKOTYERP	304
242	db	PPDHIPIHTAVLPT-VILCVWFCLILWKQKRPNSYKCGTNTMERESBOTKKREK	300
305	Qy	YHVPERSDEAQC-VNILKTAGDKN	328
301	db	IHIPIERSDEAQRVFKSSKTSKCDKS	325

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Db	126	MNSELVLANPQSPBEIVPISNITENV-YNLTCCSHGYPPPKKGSVLLTKNSTTTEYDG	184
Qy	187	VMKKSQNNVTLYNVSLPSPVPB-AHNVSVPFCAKULETLEMLLSLPFNDAIQPKDKDP	245
Db	185	IMOKSQNNVTLYDSVLSLSPBPDVTSNNTFCILETDKTR-LLSPSPSIELE--DPQF	241
Qy	246	EOGHFLWIAAVLNVMPVFCGVGFETLRK-RKKQFGPSPHECETIKRERKESQTNVERVP	304
Db	242	PPDHIPWITAVLPT-VIIICVWFCLILWKKKKQGRPNRSYKCGTNWMERBESQTKREK	300
Qy	305	YHVPERSDEAQC-VNILTAGDKN	328
Db	301	IHIPERSDEAQRPKSKTASCDKQ	325

RESULT 12  
US-08-403-253A-4  
; Sequence 4, Application US/08403253A  
; Patent No. 6352694  
; GENERAL INFORMATION:  
; APPLICANT: June, Carl H., Thompson, Craig B., Nabel, Gary J.  
; APPLICANT: Gray, Gary S., Rennert, Paul D.  
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cell  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/403,253A  
; FILING DATE: March 10, 1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/253,964  
; FILING DATE: 3 JUNE 1994  
; APPLICATION NUMBER: US 08/073,223  
; FILING DATE: 4 JUNE 1993  
; APPLICATION NUMBER: US 08/200,947  
; FILING DATE: 23 FEB 1994  
; APPLICATION NUMBER: US 07/864,805  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 08/247,505  
; FILING DATE: 23 MAY 1994  
; APPLICATION NUMBER: US 07/864,866  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 08/218,155  
; FILING DATE: 25 MAR 1994  
; APPLICATION NUMBER: US 07/864,807  
; FILING DATE: 7 APR 1992  
; APPLICATION NUMBER: US 07/902,467  
; FILING DATE: 16 JUNE 1992  
; APPLICATION NUMBER: US 07/275,433  
; FILING DATE: 23 NOV 1988  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mandragoras, Amy E.  
; REGISTRATION NUMBER: 36,207  
; REFERENCE/DOCKET NUMBER: RPI-002CP2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 742-4214  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 329 amino acids

TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-403-253A-4

Query Match 52.0%; Score 903; DB 3; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHLLVMALLSGVSMKSOAYFNKTGELPCHFTNSONISLDELVVFQDQKLV 66  
DB 6 TMGLSNILFVMAFLSGAAPLKIQAYFNETADLPCQFANSONQSLSELVVFQDQENLV 65  
QY 67 YEIPRGKENPQVHLKYKRTSFDKONMTLRLHNVQIKDGTTHCFHYHKGKGLVPMHQ 126  
DB 66 NEVYLKKEKPDVSHSKYMGRTSFDSDSWTLRLHNLQIKDGLYQCIHHKKPTGMIRHQ 125  
QY 127 MSSDLVLNPSQPEITVTSNRTENSIGIINLTCSIOGYPEPKMYPQLNTSTTKYDT 186  
DB 126 MNSLSVLNPSQPEIVPISNITENV-YINLTCSIIHGYPEPKMSVLLRTKNTSTIYDG 184  
QY 187 VMKSONNVTELYNVSISLPSFVPE-AHNVSVFCAKLETLEMLLSLPFNIDAQPKDOP 245  
DB 185 IMKSONNVTELYNVSISLPSFVPE-AHNVSVFCAKLETLEMLLSLPFNIDAQPKDOP 241  
QY 246 EQGHFLWIAAVLVMFVFCGMVSEKTLRK-RKKQKQPSHECTIKERKESKOTNERVP 304  
DB 242 PPDIHPIWITAVLPT-VIICVMVFCILWKKKKRPRNSVKCTNTWRESESEQTKCKEK 300  
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

## RESULT 13

US-08-435-816A-4  
Sequence 4, Application US/08435816A  
Patent No. 6534055

## GENERAL INFORMATION:

APPLICANT: Thompson, Craig B.  
APPLICANT: Nabel, Gary J.  
APPLICANT: Gray, Gary J.  
APPLICANT: Rennert, Paul D.  
TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSES: LAHIVE & COCKFIELD  
STREET: 60 State Street, Suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/435,816A  
FILING DATE: May 4, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/403,253  
FILING DATE: 10 MARCH 1995  
APPLICATION NUMBER: US 08/253,964  
FILING DATE: 3 JUNE 1994  
APPLICATION NUMBER: US 08/073,223  
FILING DATE: 4 JUNE 1993  
APPLICATION NUMBER: US 08/200,947  
FILING DATE: 23 FEB 1994  
APPLICATION NUMBER: US 07/864,805  
FILING DATE: 7 APR 1992

APPLICATION NUMBER: US 08/247,505  
FILING DATE: 23 MAY 1994  
APPLICATION NUMBER: US 07/864,866  
FILING DATE: 7 APR 1992  
APPLICATION NUMBER: US 08/218,155  
FILING DATE: 25 MAR 1994  
APPLICATION NUMBER: US 07/864,807  
FILING DATE: 7 APR 1992  
APPLICATION NUMBER: US 07/902,467  
FILING DATE: 16 JUNE 1992  
APPLICATION NUMBER: US 07/275,433  
FILING DATE: 23 NOV 1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragoutas, Amy E.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: RPI-002CP3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-435-816A-4

Query Match 52.0%; Score 903; DB 4; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHLLVMALLSGVSMKSOAYFNKTGELPCHFTNSONISLDELVVFQDQKLV 66  
DB 6 TMGLSNILFVMAFLSGAAPLKIQAYFNETADLPCQFANSONQSLSELVVFQDQENLV 65  
QY 67 YEIPRGKENPQVHLKYKRTSFDKONMTLRLHNVQIKDGTTHCFHYHKGKGLVPMHQ 126  
DB 66 NEVYLKKEKPDVSHSKYMGRTSFDSDSWTLRLHNLQIKDGLYQCIHHKKPTGMIRHQ 125  
QY 127 MSSDLVLNPSQPEITVTSNRTENSIGIINLTCSIOGYPEPKMYPQLNTSTTKYDT 186  
DB 126 MNSLSVLNPSQPEIVPISNITENV-YINLTCSIIHGYPEPKMSVLLRTKNTSTIYDG 184  
QY 187 VMKSONNVTELYNVSISLPSFVPE-AHNVSVFCAKLETLEMLLSLPFNIDAQPKDOP 245  
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DB 242 PPDIHPIWITAVLPT-VIICVMVFCILWKKKKRPRNSVKCTNTWRESESEQTKCKEK 300  
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

## RESULT 14

US-09-425-762-2  
Sequence 2, Application US/09425762  
Patent No. 6605279  
GENERAL INFORMATION:  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Gray, Gary S.  
APPLICANT: Nabel, Gary J.  
TITLE OF INVENTION: No. 6605279el CTLA4/CD28 Ligands and  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSES: LAHIVE & COCKFIELD, LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA

ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION NUMBER: US/09/425,762  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA: 08/479,744  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragoras, Amy B.  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: RPI-004CP3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 329 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-425-762-2

Query Match 52.0%; Score 903; DB 4; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHLLVMAALLSGVSSMKSOAYFNKGTGELPCHFTNSQNTSLDELVVFQDQDKLVL 66  
DB 6 TMGLSNILFWMAFLLSGAAPLKIQAYFNETADLPCQFANSONQSLSELVVFQDQDNVL 65  
QY 67 YEIPRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTHCHPIHYKSGKGLVPMHQ 126  
DB 66 NEVYLGRKEKPDVSHSKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKTGMIRIHQ 125  
QY 127 MSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKMFQNTENSTTKYDT 186  
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QY 305 YHVPERSDEAQCYNILKTASGDXN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 15  
US-09-837-867A-23  
Sequence 23, Application US/09837867A  
Patent No. 6608180  
GENERAL INFORMATION:  
APPLICANT: Sharpe, Arlene H.  
APPLICANT: Bottiello, Francescopaulo  
APPLICANT: Freeman, Gordon J.  
APPLICANT: Nadler, Lee M.  
TITLE OF INVENTION: Molecules and Uses Thereof  
FILE REFERENCE: BWI-120CPADV  
CURRENT APPLICATION NUMBER: US/09/837,867A  
CURRENT FILING DATE: 2001-04-17  
PRIOR APPLICATION NUMBER: 08/205,697  
PRIOR FILING DATE: 1994-03-02

NUMBER OF SEQ ID NOS: 42  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 23  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-837-867A-23  
Query Match 52.0%; Score 903; DB 4; Length 329;  
Best Local Similarity 58.5%; Pred. No. 2.1e-83;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TMGLSHLLVMAALLSGVSSMKSOAYFNKGTGELPCHFTNSQNTSLDELVVFQDQDKLVL 66  
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QY 127 MSSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKMFQNTENSTTKYDT 186  
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSIIHGYPEPKMSVLLRTKNTSTIEYDG 184  
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QY 246 EQGHFLWIAAVLVFVFCGMVSPFKTLRK-RKKQPGPSHECETIKRKESKQTNERVP 304  
DB 242 PPDHPIWITAVLPT-VIICVMVFCLILWKKKRPRNSYKCGTNTMRESESEQTCKREK 300  
QY 305 YHVPERSDEAQCYNILKTASGDXN 328  
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325  
Search completed: August 17, 2005, 19:00:02  
Job time : 25 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

# OM protein - protein search, using sw model

Run on: August 17, 2005, 18:58:34 ; Search time 158 Seconds  
(without alignments)  
815.351 Million cell updates/sec

Title: US-09-303-510-6

Perfect score: 1737

Sequence: 1 MGICDSTMGSLHTLLVMALL.....RSDEAQCYNILKTASGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1759131 seqs, 391586102 residues 1759131

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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2	1737	100.0	329	9 US-09-303-040-6	Sequence 6, Appli
3	1726	99.4	312	16 US-10-790-396-26	Sequence 26, Appli
4	1372	79.0	329	16 US-10-790-396-7	Sequence 7, Appli
5	1157.5	66.6	280	16 US-10-790-396-17	Sequence 17, Appli
6	903	52.0	329	8 US-08-592-711-4	Sequence 4, Appli
7	903	52.0	329	9 US-09-183-055-4	Sequence 4, Appli
8	903	52.0	329	9 US-09-425-762-2	Sequence 23, Appli
9	903	52.0	329	9 US-09-837-867A-23	Sequence 26, Appli
10	903	52.0	329	10 US-09-441-411-26	Sequence 23, Appli
11	903	52.0	329	10 US-09-962-969-23	Sequence 23, Appli

12	903	52.0	329	10 US-09-350-202-4	Sequence 4, Appli
13	903	52.0	329	14 US-10-041-319-8	Sequence 8, Appli
14	903	52.0	329	15 US-10-390-330-4	Sequence 4, Appli
15	903	52.0	329	16 US-10-643-768-23	Sequence 23, Appli
16	903	52.0	329	16 US-10-756-783-6	Sequence 6, Appli
17	903	52.0	329	16 US-10-762-128-26	Sequence 26, Appli
18	903	52.0	329	16 US-10-439-079B-2	Sequence 2, Appli
19	903	52.0	329	18 US-10-767-561-2	Sequence 32, Appli
20	900	51.8	329	15 US-10-318-855-32	Sequence 5, Appli
21	898	51.7	323	9 US-09-958-866-5	Sequence 11, Appli
22	898	51.7	323	9 US-09-896-738-11	Sequence 22, Appli
23	898	51.7	323	9 US-09-915-789A-16	Sequence 16, Appli
24	898	51.7	323	10 US-09-441-411-22	Sequence 1080, Ap
25	898	51.7	323	13 US-10-087-192-1080	Sequence 121, App
26	898	51.7	323	14 US-10-207-655-121	Sequence 22, Appli
27	898	51.7	323	16 US-10-762-128-22	Sequence 16, Appli
28	898	51.7	323	16 US-10-276-642-16	Sequence 4, Appli
29	898	51.7	323	17 US-10-802-440-4	Sequence 4, Appli
30	898	51.7	323	17 US-10-616-865-4	Sequence 4, Appli
31	898	51.7	323	20 US-11-027-053-4	Sequence 6, Appli
32	894.5	51.5	324	9 US-09-910-174A-6	Sequence 6, Appli
33	894.5	51.5	324	16 US-10-644-671-6	Sequence 31, Appli
34	872	50.2	169	16 US-10-790-396-31	Sequence 5, Appli
35	754.5	43.4	260	9 US-09-845-899A-5	Sequence 18, Appli
36	746.5	43.0	246	16 US-10-334-235-40	Sequence 18, Appli
37	746.5	43.0	351	9 US-09-756-983-18	Sequence 18, Appli
38	746.5	43.0	351	16 US-10-614-639A-18	Sequence 18, Appli
39	746.5	43.0	351	17 US-10-614-414A-18	Sequence 12, Appli
40	687.5	39.6	218	9 US-09-915-789A-22	Sequence 12, Appli
41	682.5	39.3	218	17 US-10-890-789-12	Sequence 11, Appli
42	643.5	37.0	356	10 US-09-441-411-11	Sequence 12, Appli
43	643.5	37.0	356	10 US-09-441-411-12	Sequence 16, Appli
44	643.5	37.0	356	10 US-09-441-411-16	Sequence 17, Appli
45	643.5	37.0	356	10 US-09-441-411-17	

## ALIGNMENTS

RESULT 1  
US-09-303-510-6  
; Sequence 6, Application US/09303510A  
; Patent No. US20020028208A1  
; GENERAL INFORMATION:  
; APPLICANT: Collieson, Ellen W.  
; APPLICANT: Haeh, Stephen M.  
; APPLICANT: Chol, Insoo  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline CD28-4 Nucleic Acid and Polypeptides  
; FILE REFERENCE: 54954  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER APPLICATION NUMBER: US/09/303,510A  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 83  
; SOFTWARE: Patentin ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Feline  
US-09-303-510-6

Query Match	100.0%	Score 1737	DB 9	Length 329
Best Local Similarity	100.0%	Pred. No. 1.2e-134	Mismatches 0	Indels 0
Matches 329	Conservative	0	Mismatches 0	Gaps 0
QY	1	MGICDSTMGSLHTLLVMALLSGVSSMSQAYFKTQELPCHFTNSQISLDELVPWQD	60	
DB	1	MGICDSTMGSLHTLLVMALLSGVSSMSQAYFKTQELPCHFTNSQISLDELVPWQD	60	
QY	61	QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKYTHCFHYKPKG	120	
DB	61	QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKYTHCFHYKPKG	120	

QY 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINTCSSIOGYPEPKMYFQNTENS 180  
DB 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINTCSSIOGYPEPKMYFQNTENS 180  
QY 181 TTKYDVTWKSSQNNVTENVISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
DB 181 TTKYDVTWKSSQNNVTENVISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
QY 241 KKDPEQGHFLMTAAVLNMFVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
DB 241 KKDPEQGHFLMTAAVLNMFVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

## RESULT 2

US-09-303-040-6  
; Sequence 6, Application US/09303040  
; Patent No. US20020051792A1  
; GENERAL INFORMATION:  
; APPLICANT: Cochran, Mark D.  
; APPLICANT: Winslow, Barbara J.  
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or  
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof  
; FILE REFERENCE: 54957-B  
; CURRENT APPLICATION NUMBER: US/09/303,040  
; EARLIER FILING DATE: 1999-04-30  
; EARLIER FILING DATE: 60/083,870  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86  
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 9; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.2e-134;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFQD 60  
DB 1 MGICDSTMGSLHTLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFQD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNMTLRHNVQIKDGTGTCPIHYKGP 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNMTLRHNVQIKDGTGTCPIHYKGP 120  
QY 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINTCSSIOGYPEPKMYFQNTENS 180  
DB 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINTCSSIOGYPEPKMYFQNTENS 180  
QY 181 TTKYDVTWKSSQNNVTENVISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
DB 181 TTKYDVTWKSSQNNVTENVISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
QY 241 KKDPEQGHFLMTAAVLNMFVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
DB 241 KKDPEQGHFLMTAAVLNMFVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

## RESULT 3

US-10-790-396-26  
; Sequence 26, Application US/10790396

Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-10-790-396-26

Query Match 99.4%; Score 1726; DB 16; Length 332;  
Best Local Similarity 99.4%; Pred. No. 9.8e-134;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFQD 60  
DB 1 MGICDSTMGSLHTLLVALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFQD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNMTLRHNVQIKDGTGTCPIHYKGP 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKRTSFDKDNMTLRHNVQIKDGTGTCPIHYKGP 120  
QY 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINTCSSIOGYPEPKMYFQNTENS 180  
DB 121 LVPQHSSDLSVLNFSQPEITVTSNRTSGIINTCSSIOGYPEPKMYFQNTENS 180  
QY 181 TTKYDVTWKSSQNNVTENVISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
DB 181 TTKYDVTWKSSQNNVTENVISLPPSVPEAHNVSVFCALKLETLEMLLSLPFNDAQP 240  
QY 241 KKDPEQGHFLMTAAVLNMFVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
DB 241 KKDPEQGHFLMTAAVLNMFVFCGVSVFKTLRKKQKQPGPSHECETIKRERKSKQTN 300  
QY 301 ERVPYHVPERSDEAQCWNILKTASGDKN 328  
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKN 328

## RESULT 4

US-10-790-396-7  
; Sequence 7, Application US/10790396  
; Publication No. US20040157296A1  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; APPLICANT: Sellins, Karen S.  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
; FILE REFERENCE: IM-1-C1-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; CURRENT FILING DATE: 2004-03-01  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 7  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Canis familiaris  
US-10-790-396-7

Query Match 79.0%; Score 1372; DB 16; Length 329;  
Best Local Similarity 81.7%; Pred. No. 1.4e-104;  
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;  
QY 7 TNGLSHTLLVWALLLGVSSMKSOAYFNKTBELCHPTNSQNSLDELVVFQDDQKLVL 66  
DB 6 TMLNLLFVMTLLYGAASMKSOAYFNKTBELCHPTNSQNSLDELVVFQDDQKLVL 65  
QY 67 YEIPRGKENPQNVHLYKGRTSFDKDNMTLRLHNVQIKDGYTHCPIHYKGPGLVPMHQ 126  
DB 66 YELRGKENPQNVHLYKGRTSFDKDNMTLRLHNIQIKDGLYOCFVHHKGPGLVPMHQ 125  
QY 127 MSSDLVLANFSPQPEITVTSNRTSGIINLTCSIOGYPEPKMYFQNTENSTTKYDT 186  
DB 126 MNSDLVLANFSPQPEITVTSNRTSGIINLTCSIOGYPEPKMYFVLTENSTTKYDT 185  
QY 187 VMKSSQNNVTLYNVISISLPSVPEAHNVSVFCALKLTLEMLLSLFPNIDAPKDKDPE 246  
DB 186 VMKSSQNNVTLYNVISISLPSVPEASNVSVFCVLESNK-LPSLPYNI-DAHTK-PTPD 243  
QY 247 QGHFLWTAALVLMFVPCGWSFKTLRKKKKQKQPSHCECTIKRERKSKOTNERVPH 306  
DB 244 GDHLWTAALVLMVTLCCGWFVFLTLRKKKKQKQPSHCECTIKRERKSKOTNERVPH 303  
QY 307 VPSRDEAQCWNILKTASGDKN 328  
DB 304 ETERSDEAQCWNISKTAGSDNS 325

## RESULT 5

US-10-790-396-17  
Sequence 17, Application US/10790396  
Publication No. US20040157296A1  
GENERAL INFORMATION:  
APPLICANT: Sim, Gek-Ke  
APPLICANT: Yang, Shumin  
APPLICANT: Sellins, Karen S.  
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
FILE REFERENCE: IN-1-C1-PCT  
CURRENT APPLICATION NUMBER: US/10/790,396  
PRIOR FILING DATE: 2004-03-01  
PRIOR APPLICATION NUMBER: US/09/646,561  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: 60/078,765  
PRIOR FILING DATE: 1998-03-19  
PRIOR APPLICATION NUMBER: 09/062,597  
PRIOR FILING DATE: 1998-04-17  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 17  
LENGTH: 280  
TYPE: PRT  
ORGANISM: Canis familiaris  
US-10-790-396-17

Query Match 66.6%; Score 1157.5; DB 16; Length 280;  
Best Local Similarity 70.8%; Pred. No. 5.3e-87;  
Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;  
QY 7 TNGLSHTLLVWALLLGVSSMKSOAYFNKTBELCHPTNSQNSLDELVVFQDDQKLVL 66  
DB 6 TMLNLLFVMTLLYGAASMKSOAYFNKTBELCHPTNSQNSLDELVVFQDDQKLVL 65  
QY 67 YEIPRGKENPQNVHLYKGRTSFDKDNMTLRLHNVQIKDGYTHCPIHYKGPGLVPMHQ 126

Db 66 YELRGKENPQNVHLYKGRTSFDKDNMTLRLHNIQIKDGLYOCFVHHKGPGLVPMHQ 125  
QY 127 MSSDLVLANFSPQPEITVTSNRTSGIINLTCSIOGYPEPKMYFQNTENSTTKYDT 186  
DB 126 MNSDLVLANFSPQPEITVTSNRTSGIINLTCSIOGYPEPKMYFVLTENSTTKYDT 185  
QY 187 VMKSSQNNVTLYNVISISLPSVPEAHNVSVFCALKLTLEMLLSLFPNIDAPKDKDPE 246  
DB 186 VMKSSQNNVTLYNVISISLPSVPEASNVSVFCVLESNK-LPSLPYNI-DAHTK-PTPD 234  
QY 247 QGHFLWTAALVLMFVPCGWSFKTLRKKKKQKQPSHCECTIKRERKSKOTNERVPH 306  
DB 235 ETERSDEAQCWNISKTAGSDNS 276  
QY 307 VPSRDEAQCWNILKTASGDKN 328  
DB 255 ETERSDEAQCWNISKTAGSDNS 276

## RESULT 6

US-08-592-711-4  
Sequence 4, Application US/08592711  
Publication No. US20020115214A1  
GENERAL INFORMATION:  
APPLICANT: June, Carl H.  
APPLICANT: Thompson, Craig B.  
APPLICANT: Nabel, Gary J.  
APPLICANT: Gray, Gary S.  
APPLICANT: Renkert, Paul D.  
TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cell  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/592,711  
FILING DATE: 26-JAN-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/435,816  
FILING DATE: 4-MAY-1995  
APPLICATION NUMBER: US 08/403,253  
FILING DATE: 10-MARCH-1995  
APPLICATION NUMBER: US 08/253,964  
FILING DATE: 3-JUNE-1994  
APPLICATION NUMBER: US 08/073,223  
FILING DATE: 4-JUNE-1993  
APPLICATION NUMBER: US 08/200,947  
FILING DATE: 23-FEB-1994  
APPLICATION NUMBER: US 07/864,805  
FILING DATE: 7-APR-1992  
APPLICATION NUMBER: US 08/247,505  
FILING DATE: 23-MAY-1994  
APPLICATION NUMBER: US 07/864,866  
FILING DATE: 7-APR-1992  
APPLICATION NUMBER: US 08/218,155  
FILING DATE: 25-MAR-1994  
APPLICATION NUMBER: US 07/864,807  
FILING DATE: 7-APR-1992  
APPLICATION NUMBER: US 07/902,467  
FILING DATE: 16-JUNE-1992  
APPLICATION NUMBER: US 07/275,433  
FILING DATE: 23-NOV-1988  
ATTORNEY/AGENT INFORMATION:  
NAME: Mandragoras, Amy E.

```
/
/ REGISTRATION NUMBER: 36,207
/ REFERENCE/DOCKET NUMBER: RPI-002CP4
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 329 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
US-08-592-711-4

Query Match      52.0%; Score 903; DB 8; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMAALLSGVSMKQAYFNKGTGELPCHFTNSQNSISLDELVVFMDQDKLV 66
DB 6 TMGLSNTLPVMAFLSGLAAPLKIAYFNETADLPQCFANSQNSLSLSELVVFMDQENLV 65
QY 67 YEIFRGKENPQVHLKYKRTSFDKQNTLRLNNVQIKDKGTYHCFHYGKPKGLVPMHQ 126
DB 66 NEVYLGKPKDSVHSKYMGRTPSDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRHQ 125
QY 127 MSSDLVLNFPSPQELTVTSNETENSGIINLTCSIOGYPEPKMYFQLTENSTTKYDT 186
DB 126 MNSLSVLNFPSPQELTVTSNETENSGIINLTCSIOGYPEPKMYFQLTENSTTKYDT 184
QY 187 VMKSKQNVTELYNVSISLSPFVPE-AHNVSVFCALKLEMLLSPFNIDAPKQKDP 245
DB 185 IMQSQDNVTELYNVSISLSPFVPE-AHNVSVFCALKLEMLLSPFNIDAPKQKDP 241
QY 246 EOGHFLMAAVLVMVVFQGVSPKTLRK-RKKQPGSHCECTIKERKESKOTNRPV 304
DB 242 PPDHIFWITAVLPT-VIIICVMVFCILMLKKKKRPRNSYKCGTNTWRESESEQTKGEK 300
QY 305 YHVPERSDEAQCQV-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVFKSKTSKSDKS 325

RESULT 8
US-09-425-762-2
/ Sequence 2, Application US/09425762
/ Publication No. US20020086414A1
/ GENERAL INFORMATION:
/ APPLICANT: Freeman, Gordon J.
/ APPLICANT: Nadler, Lee W.
/ APPLICANT: Gray, Gary S.
/ TITLE OF INVENTION: No. 6605279e1 CTLA4/CD28 Ligands and
/ TITLE OF INVENTION: Uses Therefor

/
/ REGISTRATION NUMBER: 36,207
/ REFERENCE/DOCKET NUMBER: RPI-002CP4
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ TELEFAX: (617) 227-5941
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 329 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
US-08-592-711-4

Query Match      52.0%; Score 903; DB 8; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMAALLSGVSMKQAYFNKGTGELPCHFTNSQNSISLDELVVFMDQDKLV 66
DB 6 TMGLSNTLPVMAFLSGLAAPLKIAYFNETADLPQCFANSQNSLSLSELVVFMDQENLV 65
QY 67 YEIFRGKENPQVHLKYKRTSFDKQNTLRLNNVQIKDKGTYHCFHYGKPKGLVPMHQ 126
DB 66 NEVYLGKPKDSVHSKYMGRTPSDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRHQ 125
QY 127 MSSDLVLNFPSPQELTVTSNETENSGIINLTCSIOGYPEPKMYFQLTENSTTKYDT 186
DB 126 MNSLSVLNFPSPQELTVTSNETENSGIINLTCSIOGYPEPKMYFQLTENSTTKYDT 184
QY 187 VMKSKQNVTELYNVSISLSPFVPE-AHNVSVFCALKLEMLLSPFNIDAPKQKDP 245
DB 185 IMQSQDNVTELYNVSISLSPFVPE-AHNVSVFCALKLEMLLSPFNIDAPKQKDP 241
QY 246 EOGHFLMAAVLVMVVFQGVSPKTLRK-RKKQPGSHCECTIKERKESKOTNRPV 304
DB 242 PPDHIFWITAVLPT-VIIICVMVFCILMLKKKKRPRNSYKCGTNTWRESESEQTKGEK 300
QY 305 YHVPERSDEAQCQV-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVFKSKTSKSDKS 325

RESULT 7
US-09-183-055-4
/ Sequence 4, Application US/09183055
/ Publication No. US20020076407A1
/ GENERAL INFORMATION:
/ APPLICANT: June, Carl H., Thompson, Craig B., Nabel, Gary J.
/ APPLICANT: Gray, Gary S., Rennert, Paul D.
/ TITLE OF INVENTION: Methods for selectively stimulating
/ proliferation of T-cells
/
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESS: HALE AND DORR LLP
STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.15
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/183,055
FILING DATE: 30-Oct-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/403,253
FILING DATE: March 10, 1995
APPLICATION NUMBER: US 08/253,964
FILING DATE: 3 JUNE 1994
```



/ NUMBER OF SEQUENCES: 55  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 / STREET: 60 State Street  
 / CITY: Boston  
 / STATE: Massachusetts  
 / COUNTRY: USA  
 / ZIP: 02109  
 / COMPUTER READABLE FORM:  
 / MEDIUM TYPE: Floppy disk  
 / COMPUTER: IBM PC compatible  
 / OPERATING SYSTEM: PC-DOS/MS-DOS  
 / SOFTWARE: Patentin Release #1.0, Version #1.25  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/09/425,762  
 / FILING DATE:  
 / CLASSIFICATION:  
 / PRIOR APPLICATION DATA:  
 / APPLICATION NUMBER: 08/479,744  
 / FILING DATE:  
 / ATTORNEY/AGENT INFORMATION:  
 / NAME: Mandregouras, Amy E.  
 / REGISTRATION NUMBER: 36,207  
 / REFERENCE/DOCKET NUMBER: RPI-004CP3  
 / TELECOMMUNICATION INFORMATION:  
 / TELEPHONE: (617) 227-7400  
 / TELEFAX: (617) 227-5941  
 / INFORMATION FOR SEQ ID NO: 2:  
 / SEQUENCE CHARACTERISTICS:  
 / LENGTH: 329 amino acids  
 / TYPE: amino acid  
 / TOPOLOGY: linear  
 / MOLECULE TYPE: protein  
 / US-09-425-762-2

Query Match 52.0%; Score 903; DB 9; Length 329;  
 Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
 Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
 QY 7 TGLSHTLLVMAILLSGVSMKSOAYFNKGTGELPCHPTNSQNSISLDELVLVFWQDQKLV 66  
 DB 6 TGLSNTILFVMAFLLSGAAPLKIQAYFNTADLPQCFANSONQSLSELVFWQDQENLV 65  
 QY 67 YEIPRGKENPQVHLKYGRTSPDKDNMTLRHNVQIKDGYTHCFIHYKGRGLVPMHQ 126  
 DB 66 NEVYLGEKFPDSVHSKYMGRKTSFSDSMTLRHNLQIKDGLYQCIHHKCKPTGMIRHQ 125  
 QY 127 MSSDLVLANPSPQELVTVTSNETENSGIINTCSIOGYPEPKMYFQLTNSTTKYDT 186  
 DB 126 MNSLSVLANPSPQELVPIPSNITENV-YINLTCSIRGIPPEPKMSVLLRTNSTIYDG 184  
 QY 187 VMKSONNVTLYNVSISLPFVPE-AHNVSVFCALKLETLMMLSLPPNIDAQPKDOP 245  
 DB 185 IMKQSDNVTLYDVSISLSVSPDPVTSNMTIFCILETDKTR-LLSSPFSIBLE--DPOP 241  
 QY 246 EQGHFLIAAVLVFWVFCGVSPKTLRK-RKKQPGPSHECETIKRKESKQTNVRVP 304  
 DB 242 PPDHPIPIITAVLPT-VIIICVMVFCILMKWKKKRPNRSYKCGTNTWEREESQTKREK 300  
 QY 305 YHVPERSDEAQC-VNLTKTASGDKN 328  
 DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 9  
 US-09-837-867A-23  
 / Sequence 23, Application US/09837867A  
 / Patent No. US20020098542A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Sharpe, Arlene H.  
 / APPLICANT: Borriello, Francescopaulo  
 / APPLICANT: Freeman, Gordon J.  
 / APPLICANT: Nadler, Lee M.

/ TITLE OF INVENTION: No. US20020098542A1el Forms of T Cell Costimulatory  
 / FILE OF INVENTION: Molecules and Uses Therefor  
 / FILE REFERENCE: BMI-120CPADV  
 / CURRENT APPLICATION NUMBER: US/09/837,867A  
 / CURRENT FILING DATE: 2001-04-17  
 / PRIOR APPLICATION NUMBER: 08/305,697  
 / PRIOR FILING DATE: 1994-03-02  
 / NUMBER OF SEQ ID NOS: 42  
 / SOFTWARE: FastSeq for Windows Version 4.0  
 / SEQ ID NO 23  
 / LENGTH: 329  
 / TYPE: PRT  
 / ORGANISM: Homo sapiens  
 / US-09-837-867A-23

Query Match 52.0%; Score 903; DB 9; Length 329;  
 Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
 Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
 QY 7 TGLSHTLLVMAILLSGVSMKSOAYFNKGTGELPCHPTNSQNSISLDELVLVFWQDQKLV 66  
 DB 6 TGLSNTILFVMAFLLSGAAPLKIQAYFNTADLPQCFANSONQSLSELVFWQDQENLV 65  
 QY 67 YEIPRGKENPQVHLKYGRTSPDKDNMTLRHNVQIKDGYTHCFIHYKGRGLVPMHQ 126  
 DB 66 NEVYLGEKFPDSVHSKYMGRKTSFSDSMTLRHNLQIKDGLYQCIHHKCKPTGMIRHQ 125  
 QY 127 MSSDLVLANPSPQELVTVTSNETENSGIINTCSIOGYPEPKMYFQLTNSTTKYDT 186  
 DB 126 MNSLSVLANPSPQELVPIPSNITENV-YINLTCSIRGIPPEPKMSVLLRTNSTIYDG 184  
 QY 187 VMKSONNVTLYNVSISLPFVPE-AHNVSVFCALKLETLMMLSLPPNIDAQPKDOP 245  
 DB 185 IMKQSDNVTLYDVSISLSVSPDPVTSNMTIFCILETDKTR-LLSSPFSIBLE--DPOP 241  
 QY 246 EQGHFLIAAVLVFWVFCGVSPKTLRK-RKKQPGPSHECETIKRKESKQTNVRVP 304  
 DB 242 PPDHPIPIITAVLPT-VIIICVMVFCILMKWKKKRPNRSYKCGTNTWEREESQTKREK 300  
 QY 305 YHVPERSDEAQC-VNLTKTASGDKN 328  
 DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 10  
 US-09-441-411-26  
 / Sequence 26, Application US/09441411  
 / Publication No. US20030008342A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Scholler, Nathalie B.  
 / APPLICANT: Disio, Mary L.  
 / APPLICANT: Helstrom, Ingegerd  
 / APPLICANT: Helstrom, Karl Erik  
 / TITLE OF INVENTION: SURFACE RECEPTOR ANTIGEN VACCINES  
 / FILE REFERENCE: 730033.409  
 / CURRENT APPLICATION NUMBER: US/09/441,411  
 / CURRENT FILING DATE: 1999-11-16  
 / NUMBER OF SEQ ID NOS: 26  
 / SOFTWARE: FastSeq for Windows Version 4.0  
 / SEQ ID NO 26  
 / LENGTH: 329  
 / TYPE: PRT  
 / ORGANISM: Homo sapiens  
 / US-09-441-411-26

Query Match 52.0%; Score 903; DB 10; Length 329;  
 Best Local Similarity 58.5%; Pred. No. 6.1e-66;  
 Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
 QY 7 TGLSHTLLVMAILLSGVSMKSOAYFNKGTGELPCHPTNSQNSISLDELVLVFWQDQKLV 66  
 DB 6 TGLSNTILFVMAFLLSGAAPLKIQAYFNTADLPQCFANSONQSLSELVFWQDQENLV 65



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; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 742-4214
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-350-202-4

Query Match      52.0%; Score 903; DB 10; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMSLSHTLLVWALLSGVSMKQAYFNKGTGELPCHFTNSQNSLSDELVVFWDQDKLV 66
DB 6 TMSLSNLFVWAFLLSGAAPLKIQAYFNETADLPQCFANSONQSLSELVVFWDQENLV 65
QY 67 YEIPRGKENPQVHLKYKGRTPDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMRIRH 126
DB 66 NEVYLGRKEKDSVHSGYMGRTSPDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMRIRH 125
QY 127 MS9DLSVLANFSQPEITVTSNRTENSGIINLTCSISIOGYPEPKMYFQLTNTSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-VINLTCSISIOGYPEPKMSVLLATKNSITVDG 184
QY 187 VMKQSNVNTLVNVSISLPPSPVPE-AHNVSVFCALKLETLEMLLSLPNIDAPQDKDP 245
DB 185 IMKQSNVNTLVNVSISLPPSPVPE-AHNVSVFCALKLETLEMLLSLPNIDAPQDKDP 241
QY 246 EOGHFLWIAAVLVNMFVFCGMVSFKTLAK-RKKQKQPSHECETIKRKESKQTNERP 304
DB 242 PPDHPIWITAVLPT-VIICVMVFCILWKKKKRPNRSYKCGTNTMERESBQTKKREK 300
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVPKSKTSKCDKS 325

RESULT 14
US-10-390-330-4
; Sequence 4, Application US/10390330
; Publication No. US20040001829A1
; GENERAL INFORMATION:
; APPLICANT: June, Carl H.
; APPLICANT: Thompson, Craig B.
; APPLICANT: Nabel, Gary J.
; APPLICANT: Gray, Gary S.
; APPLICANT: Rennert, Paul D.
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation
; TITLE OF INVENTION: Of T-Cells
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,330
; FILING DATE: March 17, 2003
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,816A
; FILING DATE: May 4, 1995
; CLASSIFICATION:
; APPLICATION NUMBER: US 08/403,253
; FILING DATE: 10 MARCH 1995
; APPLICATION NUMBER: US 08/253,964
; FILING DATE: 3 JUNE 1994
; APPLICATION NUMBER: US 08/073,223
; FILING DATE: 4 JUNE 1993
; APPLICATION NUMBER: US 08/200,947
; FILING DATE: 23 FEB 1994
; APPLICATION NUMBER: US 07/864,805
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 08/247,505
; FILING DATE: 23 MAY 1994
; APPLICATION NUMBER: US 07/864,866
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 08/218,155
; FILING DATE: 25 MAR 1994
; APPLICATION NUMBER: US 07/864,807
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 07/902,467
; FILING DATE: 16 JUNE 1992
; APPLICATION NUMBER: US 07/275,433

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; FILING DATE: 23 NOV 1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragoras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CF3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-10-390-330-4

Query Match 52.0%; Score 903; DB 15; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTCGELPCHFTNSQNSISLDELVVFQDQDKLV 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAYFNETADLPQFANSONQSLSELVVFQDQENLV 65
QY 67 YEIFRGKENQNVHLKYGRTSFDKDNMTLRLHNVQIKDKGTYHCFHYKGPGLVPMHQ 126
DB 66 NEVYLGKEKFDPSVHSKYMGRTSFDSDSWTLRLHLQIKDKGLYQCIHHKCKPTGMIRIQ 125
QY 127 MSSDLVLANFSPQPEITVTSNRTNSGIIINLTCSISIOGYPEPKEMVFPQNTNSSTKYDT 186
DB 126 MNSLSVLANFSPQPEIVPISNITENV-YINLTCSISIHGYPEPKKMSVLLRTKNSSTIEYDG 184
QY 187 VMKESQNNVTLYNVISLSPFSVPE-AHNVSVFCALKLEMLSLPFDNIDQPKDKP 245
DB 185 IMQSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQP 241
QY 246 EQGHFLIAAVLVFVFCMVSPKTLRK-BKKKOPGSPSHECETIKRERKESKOTNERVP 304
DB 242 PPDHIPWITAVLPT-VIIICVMVFCILWLKWKKKRPRNSYKCGTNTWERESESQTKREK 300
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

Search completed: August 17, 2005, 19:12:19
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; FILING DATE: 23 NOV 1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragoras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CF3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-10-390-330-4

Query Match 52.0%; Score 903; DB 15; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTCGELPCHFTNSQNSISLDELVVFQDQDKLV 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAYFNETADLPQFANSONQSLSELVVFQDQENLV 65
QY 67 YEIFRGKENQNVHLKYGRTSFDKDNMTLRLHNVQIKDKGTYHCFHYKGPGLVPMHQ 126
DB 66 NEVYLGKEKFDPSVHSKYMGRTSFDSDSWTLRLHLQIKDKGLYQCIHHKCKPTGMIRIQ 125
QY 127 MSSDLVLANFSPQPEITVTSNRTNSGIIINLTCSISIOGYPEPKEMVFPQNTNSSTKYDT 186
DB 126 MNSLSVLANFSPQPEIVPISNITENV-YINLTCSISIHGYPEPKKMSVLLRTKNSSTIEYDG 184
QY 187 VMKESQNNVTLYNVISLSPFSVPE-AHNVSVFCALKLEMLSLPFDNIDQPKDKP 245
DB 185 IMQSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQP 241
QY 246 EQGHFLIAAVLVFVFCMVSPKTLRK-BKKKOPGSPSHECETIKRERKESKOTNERVP 304
DB 242 PPDHIPWITAVLPT-VIIICVMVFCILWLKWKKKRPRNSYKCGTNTWERESESQTKREK 300
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328
DB 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 15
US-10-643-768-23
; Sequence 23, Application US/10643768
; Publication No. US20040192899A1
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Arlene H.
; APPLICANT: Botriello, Francescopaulo
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: Novel Forms of T Cell Costimulatory
; FILE REFERENCE: BWI-120CPADV
; CURRENT APPLICATION NUMBER: US/10/643,768
; PRIOR FILING DATE: 2003-08-18
; PRIOR FILING DATE: 2001-04-17
; PRIOR APPLICATION NUMBER: 08/205,697
; PRIOR FILING DATE: 1994-03-02
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 329
; TYPE: PPT
; ORGANISM: Homo sapiens
; US-10-643-768-23

Query Match 52.0%; Score 903; DB 16; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
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GenCore version 5.1.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2005, 18:53:53 : Search time 483 Seconds  
(without alignments)  
795.598 Million cell updates/sec

Title: US-09-303-510-6

Perfect score: 1737

Sequence: 1 MGICDSTMGSLHTLLVNAL.....RSDEAQCWNILKTSAGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 6959266 seqs, 116806243 residues

Total number of hits satisfying chosen parameters: 6959266

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pending Parents AA Main:  
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37: /cgn2\_6/ptodata/1/paa/US160\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1737	100.0	329	14	US-09-071-699-6
2	1737	100.0	329	17	US-09-303-040-6
3	1737	100.0	329	17	US-09-303-510-6
4	1737	100.0	329	22	US-09-791-537-51999
5	1737	100.0	329	26	US-10-069-636-18
6	1726	99.4	332	14	US-09-062-597A-26
7	1726	99.4	332	20	US-09-646-561-26
8	1726	99.4	332	33	US-10-790-386-26
9	1372	79.0	329	14	US-09-062-597A-7
10	1372	79.0	329	20	US-09-646-561-7
11	1372	79.0	329	26	US-10-069-636-19
12	1372	79.0	329	33	US-10-790-386-7
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15	1157.5	66.6	280	22	US-09-791-537-37771
16	1157.5	66.6	280	33	US-10-790-386-17
17	1157	66.6	325	26	US-10-069-646-20
18	1157	66.6	330	23	US-09-868-605-14
19	943.5	54.3	330	22	US-09-791-537-10853
20	932	53.7	372	35	US-10-940-774-11132
21	903	52.0	329	1	PCT-US03-12946-2520
22	903	52.0	329	5	US-08-109-393-2
23	903	52.0	329	5	US-08-109-393A-2
24	903	52.0	329	5	US-08-147-773-2
25	903	52.0	329	6	US-08-280-757-2
26	903	52.0	329	9	US-08-592-711-4
27	903	52.0	329	15	US-09-183-055-4
28	903	52.0	329	17	US-09-349-915A-4
29	903	52.0	329	17	US-09-349-915B-4
30	903	52.0	329	17	US-09-350-202-4
31	903	52.0	329	19	US-09-553-865-4
32	903	52.0	329	19	US-09-565-316A-4
33	903	52.0	329	21	US-09-716-928-4
34	903	52.0	329	21	US-09-716-928A-4
35	903	52.0	329	22	US-09-791-537-10852
36	903	52.0	329	25	US-09-962-969-23
37	903	52.0	329	25	US-09-962-969B-23
38	903	52.0	329	26	US-10-041-319-8
39	903	52.0	329	28	US-10-219-051B-10735
40	903	52.0	329	29	US-10-390-330-4
41	903	52.0	329	30	US-10-429-079B-2
42	903	52.0	329	32	US-10-643-768-23
43	903	52.0	329	33	US-10-756-783-6
44	903	52.0	329	33	US-10-762-128-26
45	903	52.0	329	33	US-10-767-561-2

#### ALIGNMENTS

#### RESULT 1

US-09-071-699-6  
Sequence 6, Appli  
GENERAL INFORMATION:  
APPLICANT: Collision, Ellen W  
APPLICANT: Hash, Stephen M.  
TITLE OF INVENTION: Feline CD86, Feline CTLA-4 Nucleic Acid  
TITLE OF INVENTION: And Polypeptides  
FILE REFERENCE: 54954-A  
CURRENT APPLICATION NUMBER: US/09/071,699A  
CURRENT FILING DATE: 1998-05-01  
NUMBER OF SEQ ID NOS: 55  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 6  
LENGTH: 329  
TYPE: PRT  
ORGANISM: feline CD86  
US-09-071-699-6

Query Match 100.0%; Score 1737; DB 14; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFQD 60

QY 61 QDKLVLYEIRFGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120  
DB 61 QDKLVLYEIRFGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120

QY 121 LVPQHOMSSDLVLANFSPQETVTSNRTENSGIINTCSCIQGYPPKEMYFQNTENS 180  
DB 121 LVPQHOMSSDLVLANFSPQETVTSNRTENSGIINTCSCIQGYPPKEMYFQNTENS 180

QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETMLLSLPPNDAQP 240  
DB 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETMLLSLPPNDAQP 240

QY 241 KDKPEQGHFLWIAAALVLMVVFVCGMVSFPTLRKRRKKQPGSPSHECETIKRERKESKQTN 300  
DB 241 KDKPEQGHFLWIAAALVLMVVFVCGMVSFPTLRKRRKKQPGSPSHECETIKRERKESKQTN 300

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DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

## RESULT 2

US-09-303-040-6  
; Sequence 6, Application US/09303040  
; GENERAL INFORMATION:  
; APPLICANT: Winlow, Barbara J.  
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding  
; TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CD28, Feline CTLA-4 or  
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof  
; FILE REFERENCE: 54957-B  
; CURRENT APPLICATION NUMBER: US/09/303,040  
; PRIOR FILING DATE: 1999-04-30  
; PRIOR FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 82  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: feline CD86  
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 17; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFQD 60  
DB 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFQD 60

QY 61 QDKLVLYEIRFGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120  
DB 61 QDKLVLYEIRFGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120

QY 121 LVPQHOMSSDLVLANFSPQETVTSNRTENSGIINTCSCIQGYPPKEMYFQNTENS 180  
DB 121 LVPQHOMSSDLVLANFSPQETVTSNRTENSGIINTCSCIQGYPPKEMYFQNTENS 180

QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETMLLSLPPNDAQP 240  
DB 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETMLLSLPPNDAQP 240

QY 241 KDKPEQGHFLWIAAALVLMVVFVCGMVSFPTLRKRRKKQPGSPSHECETIKRERKESKQTN 300

DB 241 KDKPEQGHFLWIAAALVLMVVFVCGMVSFPTLRKRRKKQPGSPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 3  
US-09-303-510-6  
; Sequence 6, Application US/09303510A  
; GENERAL INFORMATION:  
; APPLICANT: Collisson, Ellen W.  
; APPLICANT: Hash, Stephen M.  
; APPLICANT: Choi, Insoo  
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline  
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides  
; FILE REFERENCE: 54954  
; CURRENT APPLICATION NUMBER: US/09/303,510A  
; CURRENT FILING DATE: 1999-04-30  
; EARLIER FILING DATE: 1998-05-01  
; NUMBER OF SEQ ID NOS: 83  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Feline  
US-09-303-510-6

Query Match 100.0%; Score 1737; DB 17; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFQD 60  
DB 1 MGICDSTMGSLHTLLVALLSGVSSMKSOAYFNKTGELPCHFTNSQNSLDELVVFQD 60

QY 61 QDKLVLYEIRFGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120  
DB 61 QDKLVLYEIRFGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120

QY 121 LVPQHOMSSDLVLANFSPQETVTSNRTENSGIINTCSCIQGYPPKEMYFQNTENS 180  
DB 121 LVPQHOMSSDLVLANFSPQETVTSNRTENSGIINTCSCIQGYPPKEMYFQNTENS 180

QY 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETMLLSLPPNDAQP 240  
DB 181 TTKYDTVMKKSQNNVTLYNVSISLPPSVPEAHNVSVFCALKLETMLLSLPPNDAQP 240

QY 241 KDKPEQGHFLWIAAALVLMVVFVCGMVSFPTLRKRRKKQPGSPSHECETIKRERKESKQTN 300  
DB 241 KDKPEQGHFLWIAAALVLMVVFVCGMVSFPTLRKRRKKQPGSPSHECETIKRERKESKQTN 300

QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

## RESULT 4

US-09-791-537-51999  
; Sequence 51999, Application US/097915137  
; GENERAL INFORMATION:  
; APPLICANT: Biocomix, Inc.  
; APPLICANT: Debe, Derek  
; APPLICANT: Danzer, Joseph  
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME  
; TITLE OF INVENTION: METHODS OF USE THEREOF  
; FILE REFERENCE: 261/210  
; CURRENT APPLICATION NUMBER: US/09/791,537  
; CURRENT FILING DATE: 2001-02-22  
; NUMBER OF SEQ ID NOS: 153055  
; SOFTWARE: PatentIn version 3.0

SEQ ID NO 51999  
LENGTH: 329  
TYPE: PRT  
ORGANISM: Felis catus  
US-09-791-537-51999

Query Match 100.0%; Score 1737; DB 22; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNI SLDELVVFWD 60  
DB 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNI SLDELVVFWD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120  
DB 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120  
QY 121 LVPKHQSSDLSVLANSQPEITVTNSRTENSIIINLTCSIIQGYPEPKMYFOLNTENS 180  
DB 121 LVPKHQSSDLSVLANSQPEITVTNSRTENSIIINLTCSIIQGYPEPKMYFOLNTENS 180  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAQP 240  
DB 181 TTKYDTVMKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAQP 240  
QY 241 KDKPEQGHFLWIAAFLVAVFVFCGMVSFKTLRKKKKQPGSPSHECTIKRKESKQTN 300  
DB 241 KDKPEQGHFLWIAAFLVAVFVFCGMVSFKTLRKKKKQPGSPSHECTIKRKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCQVNIILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCQVNIILKTASGDKNQ 329

## RESULT 5

US-10-069-626-18  
Sequence 18, Application US/10069626  
GENERAL INFORMATION:  
APPLICANT: Green et al.  
TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and  
TITLE OF INVENTION: Polypeptides Encoded Thereby  
FILE REFERENCE: 15966-562 NATL  
CURRENT APPLICATION NUMBER: US/10/069,626  
CURRENT FILING DATE: 2002-07-25  
PRIOR APPLICATION NUMBER: PCT/US00/24220  
PRIOR FILING DATE: 2000-08-31  
PRIOR APPLICATION NUMBER: 60/152383  
PRIOR FILING DATE: 1999-09-03  
PRIOR APPLICATION NUMBER: 60/172909  
PRIOR FILING DATE: 1999-12-21  
PRIOR APPLICATION NUMBER: 60/183578  
PRIOR FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: 09/651200  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: PatentIn ver. 2.0  
SEQ ID NO 18  
TYPE: PRT  
ORGANISM: Felis catus  
US-10-069-626-18

Query Match 100.0%; Score 1737; DB 26; Length 329;  
Best Local Similarity 100.0%; Pred. No. 1.3e-157;  
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNI SLDELVVFWD 60  
DB 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNI SLDELVVFWD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120

DB 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120  
QY 121 LVPKHQSSDLSVLANSQPEITVTNSRTENSIIINLTCSIIQGYPEPKMYFOLNTENS 180  
DB 121 LVPKHQSSDLSVLANSQPEITVTNSRTENSIIINLTCSIIQGYPEPKMYFOLNTENS 180  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAQP 240  
DB 181 TTKYDTVMKKSQNNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAQP 240  
QY 241 KDKPEQGHFLWIAAFLVAVFVFCGMVSFKTLRKKKKQPGSPSHECTIKRKESKQTN 300  
DB 241 KDKPEQGHFLWIAAFLVAVFVFCGMVSFKTLRKKKKQPGSPSHECTIKRKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCQVNIILKTASGDKNQ 329  
DB 301 ERVPYHVPERSDEAQCQVNIILKTASGDKNQ 329

## RESULT 6

US-09-062-597A-26  
Sequence 26, Application US/09062597A  
GENERAL INFORMATION:  
APPLICANT: Sim, Gek-Kee  
APPLICANT: Yang, Shumin  
APPLICANT: Gelling, Karen S.  
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND  
TITLE OF INVENTION: US85 THEREOF  
NUMBER OF SEQUENCES: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Heeka Corporation  
STREET: 1825 Sharp Point Drive  
CITY: Fort Collins  
STATE: Colorado  
COUNTRY: USA  
ZIP: 80525  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: WordPerfect for Windows, Version 7.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/062,597A  
FILING DATE: 17-APR-1998  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Verseer, Carol Talkington  
REGISTRATION NUMBER: 37,459  
REFERENCE/DOCKET NUMBER: IM-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 970/493-7272  
TELEFAX: 970/484-9505  
INFORMATION FOR SEQ ID NO: 26:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: Protein  
US-09-062-597A-26

Query Match 99.4%; Score 1726; DB 14; Length 332;  
Best Local Similarity 99.4%; Pred. No. 1.5e-156;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNI SLDELVVFWD 60  
DB 1 MGICDSTWGLSHLTLLVALLLGVSSMKSQAYFNKTBELPCHFTNSQNI SLDELVVFWD 60  
QY 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDKGTYHCFIHYKGP 120

Db 61 QDKLVLYEIPRGKENPONVHLKYKGRISFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120  
QY 121 LVPQHOMSSDLSVLANSQPEITVTSNRNTSGIINLTCSISIQGYPEPKEMYFQ 180  
Db 121 LVPQHOMSSDLSVLANSQPEITVTSNRNTSGIINLTCSISIQGYPEPKEMYFQ 180  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
Db 181 TTKYDTVMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
QY 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
Db 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCINILKTASGDKN 328  
Db 301 ERVPYHVPERSDEAQCINILKTASGDKS 328

RESULT 7

US-09-646-561-26  
; Sequence 26, Application US/09646561  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-CL-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-09-646-561-26

Query Match 99.4%; Score 1726; DB 20; Length 332;  
Best Local Similarity 99.4%; Pred. No. 1.5e-156;  
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGICDSTMGSLSHLTLLVMALLSGVSSMKSQAYFNKGTGELPCHPTNSQISLDELVVFMQD 60  
Db 1 MGICDSTMGSLSHLTLLVMALLSGVSSMKSQAYFNKGTGELPCHPTNSQISLDELVVFMQD 60  
QY 61 QDKLVLYEIPRGKENPONVHLKYKGRISFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120  
Db 61 QDKLVLYEIPRGKENPONVHLKYKGRISFDKDNWTLRLHNVQIKDKGTYHCFHYKGP 120  
QY 121 LVPQHOMSSDLSVLANSQPEITVTSNRNTSGIINLTCSISIQGYPEPKEMYFQ 180  
Db 121 LVPQHOMSSDLSVLANSQPEITVTSNRNTSGIINLTCSISIQGYPEPKEMYFQ 180  
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
Db 181 TTKYDTVMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPNIDAQ 240  
QY 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
Db 241 KDKPEQGHFLWIAAVALVMPVFCGMVSPKTLRKKKQPGPSHECETIKRERKESKQTN 300  
QY 301 ERVPYHVPERSDEAQCINILKTASGDKN 328  
Db 301 ERVPYHVPERSDEAQCINILKTASGDKS 328

RESULT 9

US-10-790-396-26  
; Sequence 26, Application US/10790396  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC  
; FILE REFERENCE: IM-1-CL-PCT  
; CURRENT APPLICATION NUMBER: US/10/790,396  
; PRIOR FILING DATE: 2004-03-01  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-10-790-396-26

RESULT 9

US-09-062-597A-7  
; Sequence 7, Application US/09062597A  
; GENERAL INFORMATION:  
; APPLICANT: Sim, Gek-Kee  
; APPLICANT: Yang, Shumin  
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
; FILE REFERENCE: IM-1-CL-PCT  
; CURRENT APPLICATION NUMBER: US/09/646,561  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR FILING DATE: 1998-03-19  
; PRIOR FILING DATE: 1998-04-17  
; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 26  
; LENGTH: 332  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-09-062-597A-7



```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/062,597A
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Verser, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLSCULE TYPE: Protein
; US-09-062-597A-7

Query Match 79.0%; Score 1372; DB 14; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TWGLSHTLLVNALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISDELVVPWQDDKLV 66
DB 6 TMLNNILFVMTLLYGAAAMKSAQYFNKTGELPCHFTNSQNSISDELVVPWQDDKLV 65
QY 67 YEIPRGKENPQVHLKYKRTSPDKDNTLRLHNVQIKDKYTHCFHYKGPGLVPMHQ 126
DB 66 YELRGKENPQVHRKYKRTSPDKDNTLRLHNVQIKDKGLYQCFVHRKGPGLVPMHQ 125
QY 127 MSSDLVLNPFSPQPEIVTNSRTENSIIINLTCSISIQYPEPKMYFLVNTENSTTKYDT 186
DB 126 MNSDLVLNPFSPQPEIVTNSRTENSIIINLTCSISIQYPEPKMYFLVNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQPKDKOPE 246
DB 186 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCVLQLESKM-LPSLPYNDATK-PTPD 243
QY 247 QGHFLWIAAALVLMVLCGVNVPFLTLRKKKKQPGSPSHCECTIKRERKESKOTNERVPYH 306
DB 244 GDHILWIAAALVLMVLCGVNVPFLTLRKKKKQPGSPSHCECTIKRERKESKOTNERVPYH 303
QY 307 VPERSDAQCVNLTASGDKN 328
DB 304 ETERSDAQCVNLTASGDNS 325

RESULT 11
US-10-069-626-19
; Sequence 19, Application US/10069626
; GENERAL INFORMATION:
; APPLICANT: Green et al.
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; FILE REFERENCE: 15966-562 NATL
; CURRENT APPLICATION NUMBER: US/10/069,626
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: PCT/US00/24220
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: 09/651200
; PRIOR FILING DATE: 2000-08-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 329
; TYPB: PRT
; ORGANISM: Canis familiaris
; US-10-069-626-19

Query Match 79.0%; Score 1372; DB 26; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TWGLSHTLLVNALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISDELVVPWQDDKLV 66
DB 6 TMLNNILFVMTLLYGAAAMKSAQYFNKTGELPCHFTNSQNSISDELVVPWQDDKLV 65
QY 67 YEIPRGKENPQVHLKYKRTSPDKDNTLRLHNVQIKDKYTHCFHYKGPGLVPMHQ 126
DB 66 YELRGKENPQVHRKYKRTSPDKDNTLRLHNVQIKDKGLYQCFVHRKGPGLVPMHQ 125

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/062,597A
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Verser, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLSCULE TYPE: Protein
; US-09-062-597A-7

Query Match 79.0%; Score 1372; DB 14; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TWGLSHTLLVNALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISDELVVPWQDDKLV 66
DB 6 TMLNNILFVMTLLYGAAAMKSAQYFNKTGELPCHFTNSQNSISDELVVPWQDDKLV 65
QY 67 YEIPRGKENPQVHLKYKRTSPDKDNTLRLHNVQIKDKYTHCFHYKGPGLVPMHQ 126
DB 66 YELRGKENPQVHRKYKRTSPDKDNTLRLHNVQIKDKGLYQCFVHRKGPGLVPMHQ 125
QY 127 MSSDLVLNPFSPQPEIVTNSRTENSIIINLTCSISIQYPEPKMYFLVNTENSTTKYDT 186
DB 126 MNSDLVLNPFSPQPEIVTNSRTENSIIINLTCSISIQYPEPKMYFLVNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLETLEMLLSLPFNIDAQPKDKOPE 246
DB 186 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCVLQLESKM-LPSLPYNDATK-PTPD 243
QY 247 QGHFLWIAAALVLMVLCGVNVPFLTLRKKKKQPGSPSHCECTIKRERKESKOTNERVPYH 306
DB 244 GDHILWIAAALVLMVLCGVNVPFLTLRKKKKQPGSPSHCECTIKRERKESKOTNERVPYH 303
QY 307 VPERSDAQCVNLTASGDKN 328
DB 304 ETERSDAQCVNLTASGDNS 325

RESULT 10
US-09-646-561-7
; Sequence 7, Application US/09646561
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Ke
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/09/646,561
; CURRENT FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; LENGTH: 329
; TYPB: PRT
; ORGANISM: Canis familiaris
; US-10-069-626-19

Query Match 79.0%; Score 1372; DB 26; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TWGLSHTLLVNALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISDELVVPWQDDKLV 66
DB 6 TMLNNILFVMTLLYGAAAMKSAQYFNKTGELPCHFTNSQNSISDELVVPWQDDKLV 65
QY 67 YEIPRGKENPQVHLKYKRTSPDKDNTLRLHNVQIKDKYTHCFHYKGPGLVPMHQ 126
DB 66 YELRGKENPQVHRKYKRTSPDKDNTLRLHNVQIKDKGLYQCFVHRKGPGLVPMHQ 125
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QY 127 MSSDLVLNPFSPQEIIVTTSNRTENSIIINLTCSIIQGYPEPKMYFQMLTENSITKYDT 186  
 Db 136 MNSDLVLNPFSPQEIIVTTSNRTENSIIINLTCSIIQGYPEPKMYFQMLTENSITKYDT 185  
 QY 187 VKKSONNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAQPKDQPE 246  
 Db 186 VKKSONNVTLYNVSISLPSVPEAHNVSVFCVQLQESMK-LPSLPYNDATK-PTPD 243  
 QY 247 QGHFLWIAAALVMPVFCMGVSKFTLRKKGKQKQPGPSHECETIKREKESKQTNRPVPH 306  
 Db 244 GDHILWIAAALVMLVILCGMVFFTLTKRKGKQKQPGPSHECETIKREKESQTKERVYH 303  
 QY 307 VPERSDAQCVNIIKLTASGDKN 328  
 Db 304 ETERSDEAQCVCNISKTSAGDNS 325

## RESULT 12

US-10-790-396-7  
 ; Sequence 7, Application US/10790396  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-Kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
 ; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
 ; FILE REFERENCE: IM-1-CL-PCT  
 ; CURRENT APPLICATION NUMBER: US/10/790,396  
 ; PRIOR FILING DATE: 2004-03-01  
 ; PRIOR APPLICATION NUMBER: US/09/646,561  
 ; PRIOR FILING DATE: 2000-09-19  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 09/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 7  
 ; LENGTH: 329  
 ; TYPE: PRT  
 ; ORGANISM: Canis familiaris  
 US-10-790-396-7

Query Match 79.0%; Score 1372; DB 33; Length 329;  
 Best Local Similarity 81.7%; Pred. No. 1.7e-122;  
 Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;  
 QY 7 TWGLSHTLLVWALLLSGVSSMKSOAYFNKGTGELPCHPTNSQNIISLDELVVPWQDQKLV 66  
 Db 6 TWELNNILFVNTLLLYGAASMKSOAYFNKGTGELPCHPTNSQNIISLDELVVPWQDQKLV 65  
 QY 67 YEIRGKENPONVHLKYKGTSPDKDNWTLRLHNVIKDKGTYHCFIHYKGPGLVPMHQ 126  
 Db 66 YELARGKENPONVHRKYKGTSPDKDNWTLRLHNTQIKDKGLYQCFVHHKGPGLVPMHQ 125  
 QY 127 MSSDLVLNPFSPQEIIVTTSNRTENSIIINLTCSIIQGYPEPKMYFQMLTENSITKYDT 186  
 Db 126 MNSDLVLNPFSPQEIIVTTSNRTENSIIINLTCSIIQGYPEPKMYFQMLTENSITKYDT 185  
 QY 187 VKKSONNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAQPKDQPE 246  
 Db 186 VKKSONNVTLYNVSISLPSVPEAHNVSVFCVQLQESMK-LPSLPYNDATK-PTPD 243  
 QY 247 QGHFLWIAAALVMPVFCMGVSKFTLRKKGKQKQPGPSHECETIKREKESKQTNRPVPH 306  
 Db 244 GDHILWIAAALVMLVILCGMVFFTLTKRKGKQKQPGPSHECETIKREKESQTKERVYH 303  
 QY 307 VPERSDAQCVNIIKLTASGDKN 328  
 Db 304 ETERSDEAQCVCNISKTSAGDNS 325

## RESULT 13

US-09-062-597A-17  
 ; Sequence 17, Application US/09062597A  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-Kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
 ; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND  
 ; TITLE OF INVENTION: USES THEREOF  
 ; NUMBER OF SEQUENCES: 29  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Carol Talkington Verser, Ph.D.  
 ; ADDRESS: Heska Corporation  
 ; STREET: 1825 Sharp Point Drive  
 ; CITY: Fort Collins  
 ; STATE: Colorado  
 ; COUNTRY: USA  
 ; ZIP: 80525  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: Windows 95  
 ; SOFTWARE: WordPerfect for Windows, Version 7.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/062,597A  
 ; FILING DATE: 17-APR-1998  
 ; CLASSIFICATION: 514  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Verser, Carol Talkington  
 ; REGISTRATION NUMBER: 37,459  
 ; REFERENCE/DOCKET NUMBER: IM-1  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 970/493-7272  
 ; TELEFAX: 970/484-9505  
 ; INFORMATION FOR SEQ ID NO: 17:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 280 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: Protein  
 US-09-062-597A-17

Query Match 66.6%; Score 1157.5; DB 14; Length 280;  
 Best Local Similarity 70.8%; Pred. No. 6e-102;  
 Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;  
 QY 7 TWGLSHTLLVWALLLSGVSSMKSOAYFNKGTGELPCHPTNSQNIISLDELVVPWQDQKLV 66  
 Db 6 TWELNNILFVNTLLLYGAASMKSOAYFNKGTGELPCHPTNSQNIISLDELVVPWQDQKLV 65  
 QY 67 YEIRGKENPONVHLKYKGTSPDKDNWTLRLHNVIKDKGTYHCFIHYKGPGLVPMHQ 126  
 Db 66 YELARGKENPONVHRKYKGTSPDKDNWTLRLHNTQIKDKGLYQCFVHHKGPGLVPMHQ 125  
 QY 127 MSSDLVLNPFSPQEIIVTTSNRTENSIIINLTCSIIQGYPEPKMYFQMLTENSITKYDT 186  
 Db 126 MNSDLVLNPFSPQEIIVTTSNRTENSIIINLTCSIIQGYPEPKMYFQMLTENSITKYDT 185  
 QY 187 VKKSONNVTLYNVSISLPSVPEAHNVSVFCALKLETLEMLSLPFDNDAQPKDQPE 246  
 Db 186 VKKSONNVTLYNVSISLPSVPEAHNVSVFCVQLQESMK-LPSLPYNDATK-PTPD 234  
 QY 247 QGHFLWIAAALVMPVFCMGVSKFTLRKKGKQKQPGPSHECETIKREKESKQTNRPVPH 306  
 Db 235 ETERSDEAQCVCNISKTSAGDNS 276  
 QY 307 VPERSDAQCVNIIKLTASGDKN 328  
 Db 255 ETERSDEAQCVCNISKTSAGDNS 276

## RESULT 14

US-09-646-561-17  
 ; Sequence 17, Application US/09646561  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sim, Gek-kee  
 ; APPLICANT: Yang, Shumin  
 ; APPLICANT: Sellins, Karen S.  
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY  
 ; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF  
 ; FILE REFERENCE: IM-1-C1-PCT  
 ; CURRENT FILING DATE: 2000-09-19  
 ; CURRENT APPLICATION NUMBER: US/09/646,561  
 ; PRIOR APPLICATION NUMBER: 60/078,765  
 ; PRIOR FILING DATE: 1998-03-19  
 ; PRIOR APPLICATION NUMBER: 09/062,597  
 ; PRIOR FILING DATE: 1998-04-17  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 17  
 ; LENGTH: 280  
 ; TYPE: PRT  
 ; ORGANISM: Canis familiaris  
 US-09-646-561-17

Query Match 66.6%; Score 1157.5; DB 20; Length 280;  
 Best Local Similarity 70.8%; Pred. No. 6e-102;  
 Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;  
 QY 7 TMGLSHTLLVNALISGVSMKSOAYFNKTBGLPCHFTNSQNSISLDELVVFQDQDKLVL 66  
 DB 6 TMEANNILFWMTLLLYGAASMKSOAYFNKTBGLPCHFTNSQNSISLDELVVFQDQDKLVL 65  
 QY 67 YEIPRGKPNQVHLYKGRKTSFDKDNWTLRLHNVQIKDKGTYHCFHYHKGPKGLVPMHQ 126  
 DB 66 YELVRGKPNQVHLYKGRKTSFDKDNWTLRLHNVQIKDKGTYHCFHYHKGPKGLVPMHQ 125  
 QY 127 MSSDLVLANFSPQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYPLVKTENSTTKYDT 186  
 DB 126 MNSDLVLANFSPQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYPLVKTENSTTKYDT 185  
 QY 187 VMKSKQNNVTLYNVISLSLSPSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQPKDKDPE 246  
 DB 186 VMKSKQNNVTLYNVISLSLSPSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQPKDKDPE 234  
 QY 247 QGHFLWIAAALVMPVFCGVNPKTLRKKKQKQPGPSHCETIKRERKESKOTNERVYPH 306  
 DB 235 ETERSDEAQCQVNIKTASGDNS 276  
 QY 307 VPERSDAQCQVNIKTASGDKN 328  
 DB 255 ETERSDEAQCQVNIKTASGDNS 276

RESULT 15  
 US-09-791-537-37771  
 ; Sequence 37771, Application US/09791537  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bionomix, Inc.  
 ; APPLICANT: Debe, Derek  
 ; APPLICANT: Danzer, Joseph  
 ; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBERS  
 ; TITLE OF INVENTION: METHODS OF USE THEREOF  
 ; FILE REFERENCE: 261/210  
 ; CURRENT APPLICATION NUMBER: US/09/791,537  
 ; CURRENT FILING DATE: 2001-02-22  
 ; NUMBER OF SEQ ID NOS: 153055  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 37771  
 ; LENGTH: 280  
 ; TYPE: PRT  
 ; ORGANISM: Canis familiaris  
 US-09-791-537-37771

Query Match 66.6%; Score 1157.5; DB 22; Length 280;

Best Local Similarity 70.8%; Pred. No. 6e-102;  
 Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;  
 QY 7 TMGLSHTLLVNALISGVSMKSOAYFNKTBGLPCHFTNSQNSISLDELVVFQDQDKLVL 66  
 DB 6 TMEANNILFWMTLLLYGAASMKSOAYFNKTBGLPCHFTNSQNSISLDELVVFQDQDKLVL 65  
 QY 67 YEIPRGKPNQVHLYKGRKTSFDKDNWTLRLHNVQIKDKGTYHCFHYHKGPKGLVPMHQ 126  
 DB 66 YELVRGKPNQVHLYKGRKTSFDKDNWTLRLHNVQIKDKGTYHCFHYHKGPKGLVPMHQ 125  
 QY 127 MSSDLVLANFSPQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYPLVKTENSTTKYDT 186  
 DB 126 MNSDLVLANFSPQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYPLVKTENSTTKYDT 185  
 QY 187 VMKSKQNNVTLYNVISLSLSPSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQPKDKDPE 246  
 DB 186 VMKSKQNNVTLYNVISLSLSPSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQPKDKDPE 234  
 QY 247 QGHFLWIAAALVMPVFCGVNPKTLRKKKQKQPGPSHCETIKRERKESKOTNERVYPH 306  
 DB 235 ETERSDEAQCQVNIKTASGDNS 276  
 QY 307 VPERSDAQCQVNIKTASGDKN 328  
 DB 255 ETERSDEAQCQVNIKTASGDNS 276

Search completed: August 17, 2005, 19:08:18  
 Job time : 491 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:54:53 ; Search time 70 Seconds  
(without alignments)  
729.917 Million cell updates/sec

Title: US-09-303-510-6  
Perfect score: 1737  
Sequence: 1 MGICDSTMGSLHTLLVMALL.....RSDRAQCWNILKTASGRNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 715561 seqs, 155301442 residues

Total number of hits satisfying chosen parameters: 715561

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents AA New.\*

- 1: /cgn2\_6/ptodata/2/paa/PCT\_NEW\_COMB.pep.\*
- 2: /cgn2\_6/ptodata/2/paa/US06\_NEW\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/paa/US07\_NEW\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/paa/US08\_NEW\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/paa/US09\_NEW\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/2/paa/US10\_NEW\_COMB.pep.\*
- 7: /cgn2\_6/ptodata/2/paa/US11\_NEW\_COMB.pep.\*
- 8: /cgn2\_6/ptodata/2/paa/US60\_NEW\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Length	ID	Description
1	1157	66.6	330 7	US-11-170-797-14
2	932	53.7	372 6	US-10-940-774A-11132
3	903	52.0	329 1	PCT-US05-18790-57
4	898	51.7	323 1	PCT-US05-18790-55
5	898	51.7	323 6	US-10-998-526-5
6	898	51.7	323 7	US-11-027-053-4
7	898	51.7	323 7	US-11-120-927-16
8	898	51.7	323 7	US-11-170-797-3
9	743.5	42.8	351 6	US-10-960-855-18
10	687.5	39.6	219 7	US-11-120-927-22
11	640.5	36.9	309 7	US-11-170-797-10
12	229.5	13.2	306 5	US-09-890-729A-9
13	229.5	13.2	314 7	US-11-170-797-8
14	213	12.3	288 1	PCT-US05-18790-53
15	213	12.3	288 7	US-11-027-053-2
16	213	12.3	288 7	US-11-120-927-15
17	213	12.3	288 7	US-11-170-797-1
18	203	11.7	283 1	PCT-US04-19179-4
19	203	11.7	283 1	PCT-US04-19179-5
20	203	11.7	283 6	US-10-871-696-4
21	203	11.7	283 6	US-10-871-696-6
22	200.5	11.5	216 6	US-10-461-000-23
23	200.5	11.5	226 7	US-11-120-927-21
24	197.5	11.4	224 6	US-10-998-526-4
25	192	11.1	271 1	PCT-US05-15207-1602

26	192	11.1	282 6	US-10-184-644-218
27	192	11.1	282 6	US-10-192-007-218
28	192	11.1	282 6	US-10-063-653A-60
29	192	11.1	282 6	US-10-063-652A-60
30	192	11.1	282 6	US-10-180-554-218
31	192	11.1	282 6	US-10-063-560-60
32	192	11.1	282 6	US-10-063-736A-60
33	192	11.1	282 6	US-10-179-524-218
34	192	11.1	282 6	US-10-063-727A-60
35	192	11.1	282 6	US-10-063-638A-60
36	192	11.1	282 6	US-10-063-639A-60
37	192	11.1	282 7	US-11-050-928-348
38	192	11.1	282 7	US-11-120-927-5
39	192	11.1	282 7	US-11-154-939-1625
40	192	11.1	282 7	US-11-167-575-1625
41	192	11.1	282 7	US-11-102-240-60
42	192	11.1	282 7	US-11-103-195-60
43	192	11.1	282 7	US-11-101-316-60
44	192	11.1	282 7	US-11-102-284-60
45	188.5	10.9	227 7	US-11-120-927-19

## ALIGNMENTS

RESULT 1  
US-11-170-797-14  
Sequence 14, Application US/11170797  
GENERAL INFORMATION:  
APPLICANT: Lechlex, Robert  
APPLICANT: Rogers, Nicholas  
APPLICANT: Dofling, Anthony  
APPLICANT: ML Laboratories PLC  
TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
FILE REFERENCE: 5585-59112-02  
CURRENT APPLICATION NUMBER: US/11/170,797  
CURRENT FILING DATE: 2005-06-28  
PRIOR APPLICATION NUMBER: US 05/868,605  
PRIOR FILING DATE: 2001-06-19  
PRIOR APPLICATION NUMBER: PCT/GB99/04200  
PRIOR FILING DATE: 1999-12-17  
PRIOR APPLICATION NUMBER: 9827921.9  
PRIOR FILING DATE: 1998-12-19  
PRIOR APPLICATION NUMBER: 9925015.1  
PRIOR FILING DATE: 1999-10-23  
NUMBER OF SEQ ID NOS: 39  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 14  
LENGTH: 330  
TYPE: PRT  
ORGANISM: Forcus spp  
US-11-170-797-14

Query Match 66.6%; Score 1157; DB 7; Length 330;  
Best Local Similarity 70.1%; Pred. No. 2.9e-80;  
Matches 227; Conservative 35; Mismatch 56; Indels 6; Gaps 5;

Qy	8	MCLSHITLWALLISGVSSMKQAVENKTGELPCHPTNSQNLISLDELVVFQDQDKLVY	67
Db	1	MCLSNILFVWLLVLLSGAASLUKQAVENKTGELPCHPTNSQNLISLDELVVFQDQDKLVY	60
Qy	68	EIPFGKPNQVHLKYKGRSTFSDKONWTLRLNHNQIKDKGTYHCFIHYKPGKGLVPMHQM	127
Db	61	ELYRGQKPHNVSKYMGRTSFDQATWTLRLNHNQIKDKGTYHCFIHYKPGKGLVPMHQM	130
Qy	128	SSDSLVLANTSQPEITVTNRTNSQINLTCSSTQGYPEPKWYFQNTNSITTKYDVT	187
Db	121	SSDSLVLANTSQPEITVTNRTNSQINLTCSSTQGYPEPKWYFQNTNSITTKYDVT	179
Qy	188	MKQSONVTELYNVVSLPSPVPEANNVVFCALKLEMLL-SLPNIDAQPKDKDPE	246
Db	180	MKQSONVTELYNVVSLPSPVPEANNVVFCALKLEMLL-SLPNIDAQPKDKDPE	239

QY 247 OGHFLWIAAALVAVFVFCGMVSEKTLRKKKQPGPSHEC-ETIKRKRKSKOTNERVPY 305  
DB 240 PDHILWIAAALVAVFVFCGMVSEKTLRKKKQPGPSHEC-ETIKRKRKSKOTNERVPY 299  
QY 306 HVPERSDEAOC-VNLTASGDN 328  
DB 300 H--ERSDDAQC-VNLTASGDN 321

## RESULT 2

US-10-940-774A-11132  
; Sequence 11132, Application US/10940774A  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/10/940, 774A  
; CURRENT FILING DATE: 2004-09-15  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 11132  
; LENGTH: 372  
; TYPE: PRT  
; ORGANISM: Human  
US-10-940-774A-11132

Query Match 53.7%; Score 932; DB 6; Length 372;  
Best Local Similarity 59.1%; Pred. No. 4.3e-63;  
Matches 195; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 2 GICSTWGLSHTLLVMAALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSISDELVVPWQDQ 61  
DB 44 GICSTWGLSHTLLVMAALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSISDELVVPWQDQ 103  
QY 62 DKLVLYIFRGKPNQVHLKYKRTSPDKNWTLRHNVQIKDGTTHCFIHYKPGKGL 121  
DB 104 ENLVNEVYLGKFKFDSVHSKYMGRTSPDSWTLRLHNLQIKDGLYQCIHHKKTGM 163  
QY 122 VPMHOMSSDLVLANFSQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENST 181  
DB 164 IRIHQMSLSVLANSQPEIPIVPIISNITENV-YINLTCSHIGYPPEPKMYFOLNTENST 222  
QY 182 TKYDTVMKKSQNNVTLYNVSISLPPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAPQ 240  
DB 223 IEYDGIQKSDQNVTELYDVSISLSPVSPDVTNSMTIFCILETDKTR-LLSGPFSELE- 280  
QY 241 KDKPEQGHFLWIAAALVAVFVFCGMVSEKTLRKKKQPGPSHECETIKRKRKSKOT 299  
DB 281 -DPQPPDPHIPWITAVLPT-VIICVMVFCILWKKKKRPRNSYKCGTWTMERSESEQT 338  
QY 300 NERVYVNPERSDEAOCV-NILKTASGDN 328  
DB 339 KKREKIHIPERSDEAOCVFKSKTSSCDKS 368

## RESULT 3

PCT-US05-18790-57  
; Sequence 57, Application PC/TUS0518790  
; GENERAL INFORMATION:  
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
; TITLE OF INVENTION: BY MODULATION OF TNF-alpha ACTIVITY  
; FILE REFERENCE: HUI-055PC  
; CURRENT APPLICATION NUMBER: PCT/US05/18790  
; CURRENT FILING DATE: 2005-06-06  
; PRIOR APPLICATION NUMBER: 60/575,143

; PRIOR FILING DATE: 2004-05-28  
; NUMBER OF SEQ ID NOS: 99  
; SOFTWARE: PatentIn 3.3  
; SEQ ID NO 57  
; LENGTH: 329  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
PCT-US05-18790-57

Query Match 52.0%; Score 903; DB 1; Length 329;  
Best Local Similarity 58.5%; Pred. No. 6e-61;  
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 7 TWGLSHTLLVMAALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSISDELVVPWQDQKVL 66  
DB 6 TWGLSHTLLVMAALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSISDELVVPWQDQKVL 65  
QY 67 YEIFRGKPNQVHLKYKRTSPDKNWTLRHNVQIKDGTTHCFIHYKPGKGLVPMHQ 126  
DB 66 NEVYLGKFKFDSVHSKYMGRTSPDSWTLRLHNLQIKDGLYQCIHHKKTGMIRIHQ 125  
QY 127 MSSDLSVLANSQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENSTTKYDT 186  
DB 126 MNSLSVLANSQPEIPIVPIISNITENV-YINLTCSHIGYPPEPKMYFOLNTENSTIEYDG 184  
QY 187 VMKKSQNNVTLYNVSISLPPSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAPQKDP 245  
DB 185 IMQSDQNVTELYDVSISLSPVSPDVTNSMTIFCILETDKTR-LLSGPFSELE--DPQP 241  
QY 246 EQGHFLWIAAALVAVFVFCGMVSEKTLRKKKQPGPSHECETIKRKRKSKOTNERVP 304  
DB 242 PDPHIPWITAVLPT-VIICVMVFCILWKKKKRPRNSYKCGTWTMERSESEQTKKREK 300  
QY 305 YHVPERSDEAOCV-NILKTASGDN 328  
DB 301 IHIPERSDEAOCVFKSKTSSCDKS 325

## RESULT 4

PCT-US05-18790-55  
; Sequence 55, Application PC/TUS0518790  
; GENERAL INFORMATION:  
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
; TITLE OF INVENTION: BY MODULATION OF TNF-alpha ACTIVITY  
; FILE REFERENCE: HUI-055PC  
; CURRENT APPLICATION NUMBER: PCT/US05/18790  
; CURRENT FILING DATE: 2005-06-06  
; PRIOR APPLICATION NUMBER: 60/575,143  
; PRIOR FILING DATE: 2004-05-28  
; NUMBER OF SEQ ID NOS: 99  
; SOFTWARE: PatentIn 3.3  
; SEQ ID NO 55  
; LENGTH: 323  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
PCT-US05-18790-55

Query Match 51.7%; Score 898; DB 1; Length 323;  
Best Local Similarity 58.3%; Pred. No. 1.4e-60;  
Matches 189; Conservative 44; Mismatches 83; Indels 8; Gaps 7;  
QY 8 MGLSHTLLVMAALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSISDELVVPWQDQKVL 67  
DB 1 MGLSHTLLVMAALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSISDELVVPWQDQKVL 60  
QY 68 EIRFGKPNQVHLKYKRTSPDKNWTLRHNVQIKDGTTHCFIHYKPGKGLVPMHQ 127  
DB 61 EYVYLGKFKFDSVHSKYMGRTSPDSWTLRLHNLQIKDGLYQCIHHKKTGMIRIHQ 120  
QY 128 SSDLSVLANSQPEITVTSNRTENSGIINTCSSIHGYPPEPKMYFOLNTENSTTKYDTV 187  
DB 121 NSLSVLANSQPEIPIVPIISNITENV-YINLTCSHIGYPPEPKMYFOLNTENSTIYDGI 179



QY 8 MGLSHTLLVMAALLSGVSSMKQAYFNKTGELPCHFTNSQNSISLDELVWFOQDQKLVLY 67  
DB 1 MGLSNILFVMAFLSLGAAPLKIQAYFNETADLPQFANSQNSLSLSELVWFOQDQNLVLN 60  
QY 68 EIFRGKPNQVHLKYKGRTSFDKONWTLRLANVOIKDGTTHCFHYHKGPKGLVPMHQ 127  
DB 61 EYILGKEKFDVSHSKYMGRTSPDSWTLRLANLQIKDGLYQCIHHKKEPTGMIRHQ 120  
QY 128 SSDLSVLANSQPEITVTSNRNENSGIINLTCSSTOGYPPEPKMYFOLNTENSTTKYDTV 187  
DB 121 NSELVLANFSQPEIVPISNITENV-YINLTCSSTHGYPEPKMSVLLRTKSTIEYDGI 179  
QY 188 MKKQNNVTLYNVSISLSPFSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAQPKDPE 246  
DB 180 MOKSQDNTLYDVSISLSPFSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAQPKDPE 236  
QY 247 OQHFLWIAAALVWVPCGMVSPKTLRK-RKKQKQPSHCECTIKRERKESKOTNERVY 305  
DB 237 PDHIPWITAVLPT-VIICVMVFCILILWKKKKRPNRSYKCGTNTMERBESQTKKREKI 295  
QY 306 HYPERSDEAQC-VNLTASGDKN 328  
DB 296 HIPERSDEAQRVFKSKTSKSCDKS 319

## RESULT 8

US-11-170-797-3  
; Sequence 3, Application US/11170797  
; GENERAL INFORMATION:  
; APPLICANT: Lechler, Robert  
; APPLICANT: Rogers, Nichola  
; APPLICANT: Dorling, Anthony  
; APPLICANT: ML Laboratories PLC  
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
; FILE REFERENCE: 5585-59112-02  
; CURRENT FILING DATE: US/11/170,797  
; PRIOR FILING DATE: 2005-06-28  
; PRIOR APPLICATION NUMBER: US 09/868,605  
; PRIOR FILING DATE: 2001-06-19  
; PRIOR APPLICATION NUMBER: PCT/GB99/04200  
; PRIOR FILING DATE: 1999-12-17  
; PRIOR APPLICATION NUMBER: 9827921.9  
; PRIOR FILING DATE: 1998-12-19  
; PRIOR APPLICATION NUMBER: 9925015.1  
; PRIOR FILING DATE: 1999-10-23  
; NUMBER OF SEQ ID NOS: 39  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 323  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-170-797-3

Query Match 51.7%; Score 898; DB 7; Length 323;  
Best Local Similarity 58.3%; Pred. No. 1.4e-60;  
Matches 189; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 8 MGLSHTLLVMAALLSGVSSMKQAYFNKTGELPCHFTNSQNSISLDELVWFOQDQKLVLY 67  
DB 1 MGLSNILFVMAFLSLGAAPLKIQAYFNETADLPQFANSQNSLSLSELVWFOQDQNLVLN 60  
QY 68 EIFRGKPNQVHLKYKGRTSFDKONWTLRLANVOIKDGTTHCFHYHKGPKGLVPMHQ 127  
DB 61 EYILGKEKFDVSHSKYMGRTSPDSWTLRLANLQIKDGLYQCIHHKKEPTGMIRHQ 120  
QY 128 SSDLSVLANSQPEITVTSNRNENSGIINLTCSSTOGYPPEPKMYFOLNTENSTTKYDTV 187  
DB 121 NSELVLANFSQPEIVPISNITENV-YINLTCSSTHGYPEPKMSVLLRTKSTIEYDGI 179  
QY 188 MKKQNNVTLYNVSISLSPFSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAQPKDPE 246  
DB 180 MOKSQDNTLYDVSISLSPFSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAQPKDPE 236

QY 247 OQHFLWIAAALVWVPCGMVSPKTLRK-RKKQKQPSHCECTIKRERKESKOTNERVY 305  
DB 237 PDHIPWITAVLPT-VIICVMVFCILILWKKKKRPNRSYKCGTNTMERBESQTKKREKI 295  
QY 306 HYPERSDEAQC-VNLTASGDKN 328  
DB 296 HIPERSDEAQRVFKSKTSKSCDKS 319

## RESULT 9

US-10-960-855-18  
; Sequence 18, Application US/10960855  
; GENERAL INFORMATION:  
; APPLICANT: ALBANI, SALVATORE  
; TITLE OF INVENTION: METHODS FOR ISOLATION, QUANTIFICATION, CHARACTERIZATION  
; FILE REFERENCE: AND-1001-CP2  
; CURRENT FILING DATE: US/10/960,855  
; PRIOR FILING DATE: 2004-10-06  
; PRIOR APPLICATION NUMBER: 60/510,645  
; PRIOR FILING DATE: 2003-10-10  
; PRIOR APPLICATION NUMBER: 09/756,983  
; PRIOR FILING DATE: 2001-01-09  
; PRIOR APPLICATION NUMBER: 09/421,506  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: PCT/US99/2466  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/105,018  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent In Ver. 3.3  
; SEQ ID NO 18  
; LENGTH: 351  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: fusion construct with human and bacterial  
; OTHER INFORMATION: sequences  
US-10-960-855-18

Query Match 42.8%; Score 743.5; DB 6; Length 351;  
Best Local Similarity 61.3%; Pred. No. 8.7e-49;  
Matches 149; Conservative 32; Mismatches 57; Indels 5; Gaps 4;

QY 8 MGLSHTLLVMAALLSGVSSMKQAYFNKTGELPCHFTNSQNSISLDELVWFOQDQKLVLY 67  
DB 1 MGLSNILFVMAFLSLGAAPLKIQAYFNETADLPQFANSQNSLSLSELVWFOQDQNLVLN 60  
QY 68 EIFRGKPNQVHLKYKGRTSFDKONWTLRLANVOIKDGTTHCFHYHKGPKGLVPMHQ 127  
DB 61 EYILGKEKFDVSHSKYMGRTSPDSWTLRLANLQIKDGLYQCIHHKKEPTGMIRHQ 120  
QY 128 SSDLSVLANSQPEITVTSNRNENSGIINLTCSSTOGYPPEPKMYFOLNTENSTTKYDTV 187  
DB 121 NSELVLANFSQPEIVPISNITENV-YINLTCSSTHGYPEPKMSVLLRTKSTIEYDGI 179  
QY 188 MKKQNNVTLYNVSISLSPFSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAQPKDPE 246  
DB 180 MOKSQDNTLYDVSISLSPFSVPE-AHNVSVFCALKLETLEMLLSLFPNIDAQPKDPE 236  
QY 247 OQH 249  
DB 237 PDH 239

## RESULT 10

US-11-120-927-22  
; Sequence 22, Application US/11120927  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Lieping  
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY  
; TITLE OF INVENTION: MOLECULES





APPLICANT: Rogers, Nichola  
APPL-CANT: Dorling, Anthony  
APPL-CANT: ML Laboratories PLC  
TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH  
FILE REFERENCE: 5585-59112-02  
CURRENT APPLICATION NUMBER: US/11/170,797  
CURRENT FILING DATE: 2005-06-28  
PRIOR APPLICATION NUMBER: US 09/868,605  
PRIOR FILING DATE: 2001-06-19  
PRIOR APPLICATION NUMBER: PCT/GB99/04200  
PRIOR FILING DATE: 1999-12-17  
PRIOR APPLICATION NUMBER: 9827921.9  
PRIOR FILING DATE: 1998-12-19  
PRIOR APPLICATION NUMBER: 9925015.1  
PRIOR FILING DATE: 1999-10-23  
NUMBER OF SEQ ID NOS: 39  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 8  
LENGTH: 314  
TYPE: PRT  
ORGANISM: Mus musculus  
US-11-170-797-8

Query Match 13.3%; Score 229.5; DB 7; Length 314;  
Best Local Similarity 24.6%; Pred. No. 9.6e-10;  
Matches 79; Conservative 57; Mismatches 128; Indels 57; Gaps 12;

QY 14 LLMALLISGVSSMKSOAYFNKGTGE---LPCHFTNSQNSIDELVFWQDQKLYBIP 70  
DB 32 LFLVLIRUSQSSVDQLSKSVCKVLLPCRY-NSPHEDESEDRITWQKHDKVIL-SVI 89  
QY 71 RGENPQNVHLKYGRTSPDKONTLRLHNVOIKDKGTYHCFIHYKPGKGLVPMQMSD 130  
DB 90 AGK---LKMPEYKNTLYDNTTYSLIILGLVLSDRGTYSVCVQKRGTYEVKHLALVK 146  
QY 131 LSVLANFSPQBITVTSNRNTEGSIINLTCSIOGYPEKEMVFNLTG---NSTTKYDT 186  
DB 147 LSIAKADFTNITESGNPSADTK--RITCFASGGFPKPPSWLENGELPGINTTI--- 200  
QY 187 VMKSONVTELYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLFPNDAQPKDPE 246  
DB 201 ---SQPESELYTISSQLDFNTRNHTIK--CLIKYG--DAHVSDFTWKPPDPDPS 252  
QY 247 Q-----GHPMTAAVLVNFVFCGMVSFKTLRKKKQPGSPHECTIKRKES 296  
DB 253 KNTLVLCAGGFGAVITVVIWIKKFC-----KURSCFRNEAS 292  
QY 297 KOTNERVPYHVPERSDEACV 317  
DB 293 RETNNSLTFG-PEALAEQTV 312

RESULT 14  
PCT-US05-18790-53  
Sequence 53, Application PC/TUS0518790  
GENERAL INFORMATION:  
APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE  
TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM  
FILE REFERENCE: HUI-055PC  
CURRENT APPLICATION NUMBER: PCT/US05/18790  
CURRENT FILING DATE: 2005-06-06  
PRIOR APPLICATION NUMBER: 60/575,143  
PRIOR FILING DATE: 2004-05-28  
NUMBER OF SEQ ID NOS: 99  
SOFTWARE: Patent in 3.3  
SEQ ID NO 53  
LENGTH: 288  
TYPE: PRT  
ORGANISM: Homo sapiens  
PCT-US05-18790-53

Query Match 12.3%; Score 213; DB 1; Length 288;

Best Local Similarity 27.3%; Pred. No. 1.6e-08;  
Matches 82; Conservative 48; Mismatches 116; Indels 54; Gaps 14;

QY 9 GLSHTLLVMALLISGVSSMKSOAYFNKGTGELPCHFTNSQNSIDELV---VFMQDQKLV 65  
DB 27 GLSH-----PCSGVIHVTKEV--KEVATLSC---GHNVSVELAQTRIYWKQKKV 73  
QY 66 LYEIIFRGKPNQNVHLKYGRTSPDKONTLRLHNVOIKDKGTYHCFIHYKPGKGLVPM 124  
DB 74 LTM-----SGDMNIWPEYKNTIPIDTNLSIVILALRPSDEGTFCVLYKEDAFKE 129  
QY 125 HQMSDLSVLANFSPQBITVTSNRNTEGSIINLTCSIOGYPEKEMVFNLTG---OLNTENS 180  
DB 130 HLAETVLSVKADPTPSISDPPIPTSN--IRRIICSTSGGPPPEPHLSWLENGELNAIN 187  
QY 181 TTKYDTVMKSONVTELYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLFPNDAQ 240  
DB 188 TV-----SQPETELVAVSSKLDPNMTTH--SPMCLIKYGHRL--VNQTFNMTTK 235  
QY 241 KDKPEQGHFLW---IAAVLWVFWFCGMVSF-KTLRKKKQPGSPHECTIKRKES 296  
DB 236 QHFPDNLPSWAILTISVNGIFVICLTFCFAPRCRRRNE-----RLRRS 284

RESULT 15  
US-11-027-053-2  
Sequence 2, Application US/11027053  
GENERAL INFORMATION:  
APPLICANT: Newell, Martha K.  
TITLE OF INVENTION: METHODS AND PRODUCTS RELATED TO  
FILE REFERENCE: VOL39/7028/HK  
CURRENT APPLICATION NUMBER: US/11/027,053  
CURRENT FILING DATE: 2004-12-30  
PRIOR APPLICATION NUMBER: US/09/277,575  
PRIOR FILING DATE: 1999-03-26  
PRIOR APPLICATION NUMBER: U.S. 60/082,250  
PRIOR FILING DATE: 1998-04-17  
PRIOR APPLICATION NUMBER: U.S. 60/094,519  
PRIOR FILING DATE: 1998-07-29  
PRIOR APPLICATION NUMBER: U.S. 60/101,580  
PRIOR FILING DATE: 1998-09-24  
NUMBER OF SEQ ID NOS: 13  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2  
LENGTH: 288  
TYPE: PRT  
ORGANISM: Homo Sapiens  
US-11-027-053-2

Query Match 12.3%; Score 213; DB 7; Length 288;  
Best Local Similarity 27.3%; Pred. No. 1.6e-08;  
Matches 82; Conservative 48; Mismatches 116; Indels 54; Gaps 14;

QY 9 GLSHTLLVMALLISGVSSMKSOAYFNKGTGELPCHFTNSQNSIDELV---VFMQDQKLV 65  
DB 27 GLSH-----PCSGVIHVTKEV--KEVATLSC---GHNVSVELAQTRIYWKQKKV 73  
QY 66 LYEIIFRGKPNQNVHLKYGRTSPDKONTLRLHNVOIKDKGTYHCFIHYKPGKGLVPM 124  
DB 74 LTM-----SGDMNIWPEYKNTIPIDTNLSIVILALRPSDEGTFCVLYKEDAFKE 129  
QY 125 HQMSDLSVLANFSPQBITVTSNRNTEGSIINLTCSIOGYPEKEMVFNLTG---OLNTENS 180  
DB 130 HLAETVLSVKADPTPSISDPPIPTSN--IRRIICSTSGGPPPEPHLSWLENGELNAIN 187  
QY 181 TTKYDTVMKSONVTELYNVSISLPPSVPEAHNVSVFCALKLETLEMLLSLFPNDAQ 240  
DB 188 TV-----SQPETELVAVSSKLDPNMTTH--SPMCLIKYGHRL--VNQTFNMTTK 235  
QY 241 KDKPEQGHFLW---IAAVLWVFWFCGMVSF-KTLRKKKQPGSPHECTIKRKES 296  
DB 236 QHFPDNLPSWAILTISVNGIFVICLTFCFAPRCRRRNE-----RLRRS 284

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